

Welcome to STN International! Enter x:x
LOGINID:sssptal745sxt
PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 Dec 17 The CA Lexicon available in the CAPLUS and CA files
NEWS 3 Feb 06 Engineering Information Encompass files have new names
NEWS 4 Feb 16 TOXLINE no longer being updated
NEWS 5 Apr 23 Search Derwent WPINDEX by chemical structure
NEWS 6 Apr 23 PRE-1967 REFERENCES NOW SEARCHABLE IN CAPLUS AND CA
NEWS 7 May 07 DGENE Reload
NEWS 8 Jun 20 Published patent applications (A1) are now in USPATFULL
NEWS 9 JUL 13 New SDI alert frequency now available in Derwent's
DWPI and DPCI
NEWS 10 Aug 23 In-process records and more frequent updates now in
MEDLINE
NEWS 11 Aug 23 PAGE IMAGES FOR 1947-1966 RECORDS IN CAPLUS AND CA
NEWS 12 Aug 23 Adis Newsletters (ADISNEWS) now available on STN
NEWS 13 Sep 17 IMSworld Pharmaceutical Company Directory name change
to PHARMASEARCH

NEWS EXPRESS August 15 CURRENT WINDOWS VERSION IS V6.0c,
CURRENT MACINTOSH VERSION IS V6.0 (ENG) AND V6.0J (JP),
AND CURRENT DISCOVER FILE IS DATED 07 AUGUST 2001

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
specific topic.

All use of STN is subject to the provisions of the STN Customer
agreement. Please note that this agreement limits use to scientific
research. Use for software development or design or implementation
of commercial gateways or other similar uses is prohibited and may
result in loss of user privileges and other penalties.

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 12:56:18 ON 01 OCT 2001

=>Testing the current file.... screen

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE

Please change to a suitable file and repeat your upload

Some commands only work in certain files. For example, the EXPAND
command can only be used to look at the index in a file which has an
index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of

commands which can be used in this file.

=> d l1

NO L# DEFINED

There are no L# queries, structures, or screen sets defined in the current session.

=> file registry

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.15	0.15

FILE 'REGISTRY' ENTERED AT 12:56:49 ON 01 OCT 2001
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2001 American Chemical Society (ACS)

STRUCTURE FILE UPDATES: 30 SEP 2001 HIGHEST RN 359625-43-7
DICTIONARY FILE UPDATES: 30 SEP 2001 HIGHEST RN 359625-43-7

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Structure search limits have been increased. See HELP SLIMIT for details.

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=>
Uploading c:\stnexp4\queries\biphenyl.str

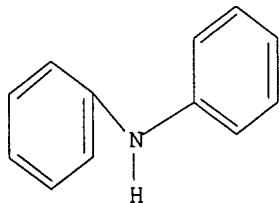
L1 STRUCTURE UPLOADED

=> que L1

L2 QUE L1

=> d l1

L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 sam

SAMPLE SEARCH INITIATED 12:57:20 FILE 'REGISTRY'

50 ANSWERS

```

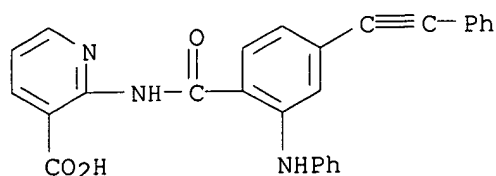
FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH    **COMPLETE**
PROJECTED ITERATIONS:   184366 TO   196034
PROJECTED ANSWERS:      52933 TO   59283

```

=> d scan 1-10

```
'1-10' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'
```

L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 3-Pyridinecarboxylic acid, 2-[[2-(phenylamino)-4-(phenylethynyl)benzoyl]amino]- (9CI)
MF C27 H19 N3 O3



The following are valid formats:

Substance information can be displayed by requesting individual fields or predefined formats. The predefined substance formats are: (RN = CAS Registry Number)

```

REG      - RN
SAM      - Index Name, MF, and structure - no RN
FIDE     - All substance data, except sequence data
IDE      - FIDE, but only 50 names
SQIDE    - IDE, plus sequence data
SQIDE3   - Same as SQIDE, but 3-letter amino acid codes are used
SQD      - Protein sequence data, includes RN
SQD3     - Same as SQD, but 3-letter amino acid codes are used
SQN      - Protein sequence name information, includes RN

```

Any CA File format may be combined with any substance format to obtain CA references citing the substance. The substance formats must be cited first. The CA File predefined formats are:

```

ABS    -- Abstract
APPS   -- Application and Priority Information
BIB    -- CA Accession Number, plus Bibliographic Data
CAN    -- CA Accession Number
CBIB   -- CA Accession Number, plus Bibliographic Data (compressed)
IND    -- Index Data
IPC    -- International Patent Classification
PATS   -- PI, SO
STD    -- BIB, IPC, and NCL

```

IABS --ABS, indented, with text labels
IBIB -- BIB, indented, with text labels

ISTD -- STD format, indented

OBIB ----- AN, plus Bibliographic Data (original)

OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations

SIBIB ----- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.

The MAX format is the same as ALL.

The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

For additional information, please consult the following help messages:

HELP DFIELDS -- To see a complete list of individual display fields.

HELP FORMATS -- To see detailed descriptions of the predefined formats.

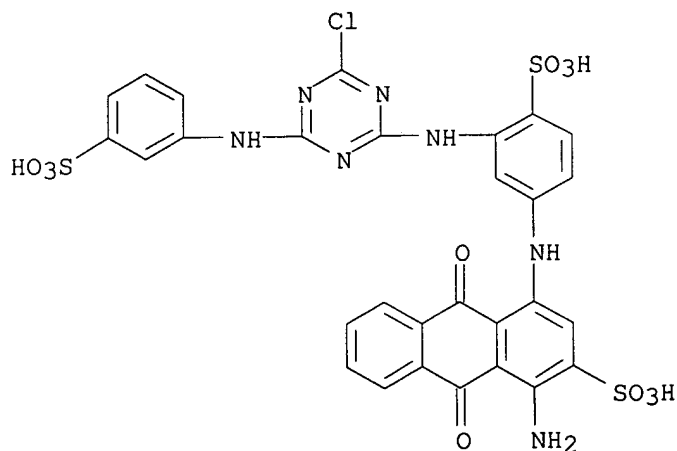
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS

IN 2-Anthracenesulfonic acid, 1-amino-4-[[3-[[4-chloro-6-[(3-sulfophenyl)amino]-1,3,5-triazin-2-yl]amino]-4-sulfophenyl]amino]-9,10-dihydro-9,10-dioxo-, lithium sodium salt (9CI)

MF C29 H20 Cl N7 O11 S3 . x Li . x Na

PAGE 1-A



● x Li

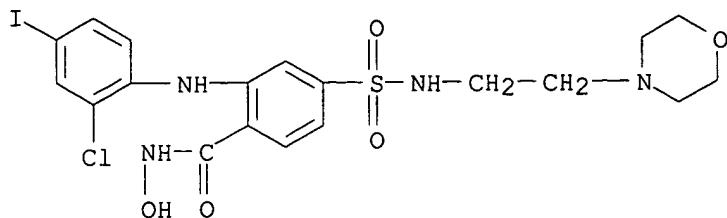
PAGE 2-A

● x Na

L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS

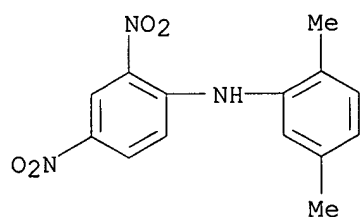
IN Benzamide, 2-[(2-chloro-4-iodophenyl)amino]-N-hydroxy-4-[[[2-(4-morpholinyl)ethyl]amino]sulfonyl]- (9CI)

MF C19 H22 Cl I N4 O5 S

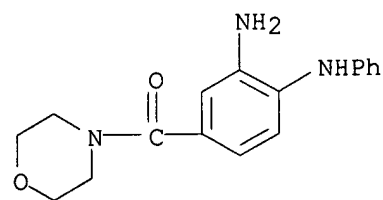


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):3

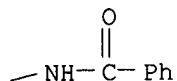
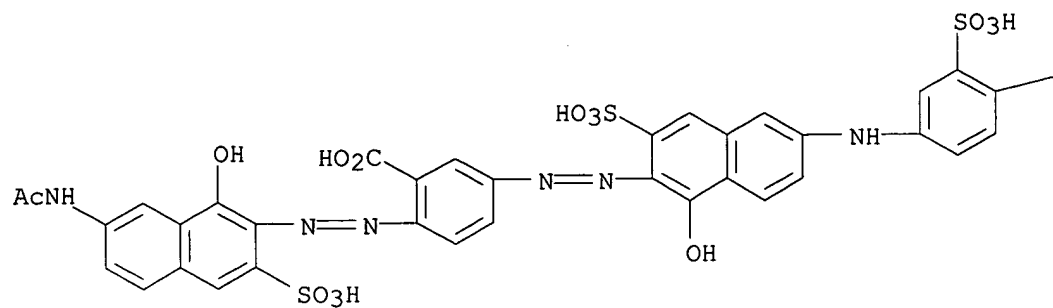
L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Benzenamine, N-(2,5-dimethylphenyl)-2,4-dinitro- (9CI)
 MF C14 H13 N3 O4



L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Morpholine, 4-[3-amino-4-(phenylamino)benzoyl]- (9CI)
 MF C17 H19 N3 O2

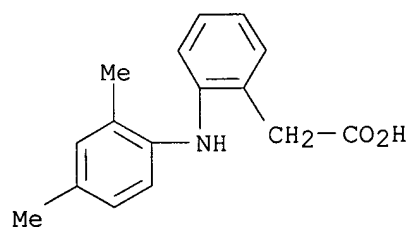


L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Benzoic acid,
 2-[[7-(acetylamino)-1-hydroxy-3-sulfo-2-naphthalenyl]azo]-5-
 [[6-[[4-(benzoylamino)-3-sulfo-2-naphthalenyl]azo]-1-hydroxy-3-sulfo-2-
 naphthalenyl]azo]- (9CI)
 MF C42 H31 N7 O15 S3

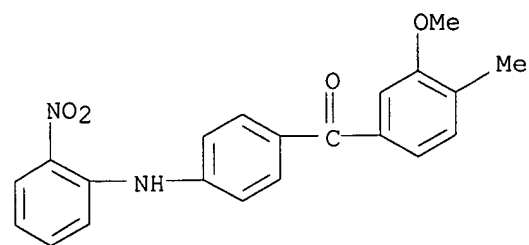


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Benzeneacetic acid, 2-[(2,4-dimethylphenyl)amino]- (9CI)
 MF C16 H17 N O2

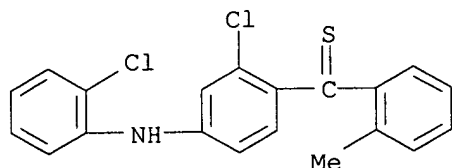


L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Methanone, (3-methoxy-4-methylphenyl)[4-[(2-nitrophenyl)amino]phenyl]-
 (9CI)
 MF C21 H18 N2 O4

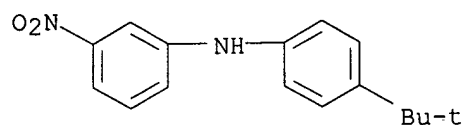


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN Methanethione,
[2-chloro-4-[(2-chlorophenyl)amino]phenyl] (2-methylphenyl)-
(9CI)
MF C20 H15 Cl2 N S

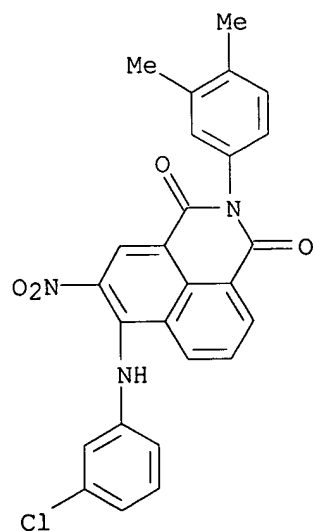


L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN Benzenamine, N-[4-(1,1-dimethylethyl)phenyl]-3-nitro- (9CI)
MF C16 H18 N2 O2



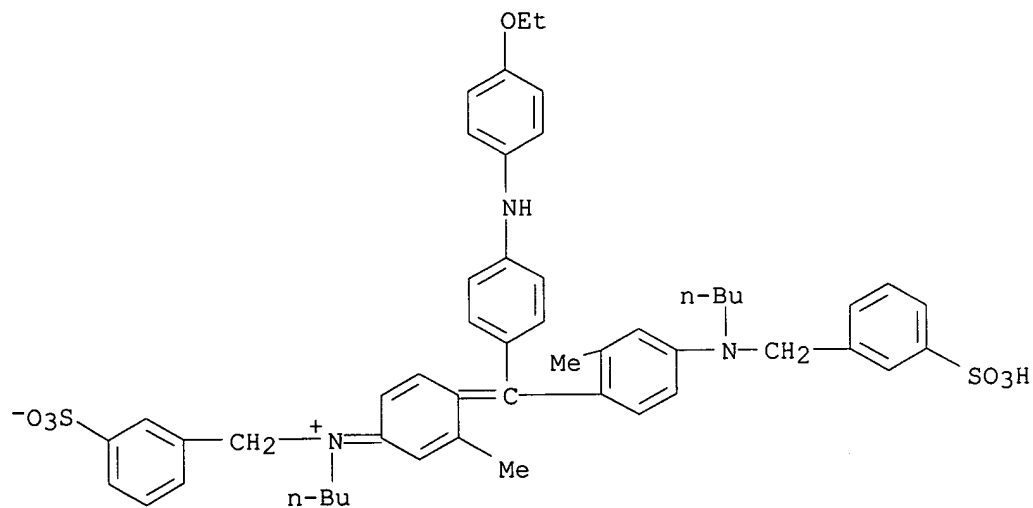
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):3

L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 6-[(3-chlorophenyl)amino]-2-(3,4-dimethylphenyl)-5-nitro- (9CI)
MF C26 H18 Cl N3 O4



CC1=CC=C(NC2=CC(=C(C=C2)C(F)=C(Cl)C2=CC(=C(C=C2)C)C)C)C1

CM 1



=> d his

(FILE 'HOME' ENTERED AT 12:56:18 ON 01 OCT 2001)

FILE 'REGISTRY' ENTERED AT 12:56:49 ON 01 OCT 2001

L1 STRUCTURE UPLOADED
L2 QUE L1
L3 50 S L1 SAM

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.55	1.70

FILE 'CAPLUS' ENTERED AT 12:59:32 ON 01 OCT 2001
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2001 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications.

FILE COVERS 1947 - 1 Oct 2001 VOL 135 ISS 15
FILE LAST UPDATED: 30 Sep 2001 (20010930/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

Caplus now provides online access to patents and literature covered in CA from 1947 to the present. On April 22, 2001, bibliographic information and abstracts were added for over 2.2 million references published in CA from 1947 to 1966.

The CA Lexicon is now available in the Controlled Term (/CT) field. Enter HELP LEXICON for full details.

Attention, the CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

=> s l1 and polymer?

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

SAMPLE SEARCH INITIATED 12:59:40 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 9510 TO ITERATE

10.5% PROCESSED 1000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

50 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 184366 TO 196034
PROJECTED ANSWERS: 52933 TO 59283

L4 50 SEA SSS SAM L1

L5 52 L4

1372220 POLYMER?
69521 POLYMD
69521 POLYMD
(POLYMD)
24767 POLYMG
261007 POLYMN
6153 POLYMNS
261758 POLYMN
(POLYMN OR POLYMNS)
1423063 POLYMER?
(POLYMER? OR POLYMD OR POLYMG OR POLYMN)

L6 4 L5 AND POLYMER?

=> d his

(FILE 'HOME' ENTERED AT 12:56:18 ON 01 OCT 2001)

FILE 'REGISTRY' ENTERED AT 12:56:49 ON 01 OCT 2001

L1 STRUCTURE UPLOADED
L2 QUE L1
L3 50 S L1 SAM

FILE 'CAPLUS' ENTERED AT 12:59:32 ON 01 OCT 2001
S L1 AND POLYMER?

FILE 'REGISTRY' ENTERED AT 12:59:40 ON 01 OCT 2001
L4 50 S L1

FILE 'CAPLUS' ENTERED AT 12:59:41 ON 01 OCT 2001
L5 52 S L4
L6 4 S L5 AND POLYMER?

=> d 1-4 ibib str ti ab

'STR' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'

The following are valid formats:

ABS ----- GI and AB
ALL ----- BIB, AB, IND, RE
APPS ----- AI, PRAI
BIB ----- AN, plus Bibliographic Data and PI table (default)
CAN ----- List of CA abstract numbers without answer numbers
CBIB ----- AN, plus Compressed Bibliographic Data
DALL ----- ALL, delimited (end of each field identified)
DMAX ----- MAX, delimited for post-processing
FAM ----- AN, PI and PRAI in table, plus Patent Family data
FBIB ----- AN, BIB, plus Patent FAM
IND ----- Indexing data
IPC ----- International Patent Classifications
MAX ----- ALL, plus Patent FAM, RE
PATS ----- PI, SO
SAM ----- CC, SX, TI, ST, IT

SCAN ----- CC, SX, TI, ST, IT (random display, no answer numbers;
SCAN must be entered on the same line as the DISPLAY,
e.g., D SCAN or DISPLAY SCAN)

STD ----- BIB, IPC, and NCL

IABS ----- ABS, indented with text labels

IALL ----- ALL, indented with text labels

IBIB ----- BIB, indented with text labels

IMAX ----- MAX, indented with text labels

ISTD ----- STD, indented with text labels

OBIB ----- AN, plus Bibliographic Data (original)

OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations

SIBIB ----- IBIB, no citations

HIT ----- Fields containing hit terms

HITIND ----- IC, ICA, ICI, NCL, CC and index field (ST and IT)
containing hit terms

HITRN ----- HIT RN and its text modification

HITSTR ----- HIT RN, its text modification, its CA index name, and
its structure diagram

FHITSTR ----- First HIT RN, its text modification, its CA index name, and
its structure diagram

KWIC ----- Hit term plus 20 words on either side

OCC ----- Number of occurrence of hit term and field in which it occurs

To display a particular field or fields, enter the display field codes. For a list of the display field codes, enter HELP DFIELDS at an arrow prompt (=>). Examples of formats include: TI; TI,AU; BIB,ST; TI,IND; TI,SO. You may specify the format fields in any order and the information will be displayed in the same order as the format specification.

All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR, FHITSTR, KWIC, and OCC) may be used with DISPLAY ACC to view a specified Accession Number.
ENTER DISPLAY FORMAT (BIB):end

=> d his

(FILE 'HOME' ENTERED AT 12:56:18 ON 01 OCT 2001)

FILE 'REGISTRY' ENTERED AT 12:56:49 ON 01 OCT 2001

L1 STRUCTURE UPLOADED

L2 QUE L1

L3 50 S L1 SAM

FILE 'CAPLUS' ENTERED AT 12:59:32 ON 01 OCT 2001

S L1 AND POLYMER?

FILE 'REGISTRY' ENTERED AT 12:59:40 ON 01 OCT 2001

L4 50 S L1

FILE 'CAPLUS' ENTERED AT 12:59:41 ON 01 OCT 2001

L5 52 S L4

L6 4 S L5 AND POLYMER?

=> d 1-4 ibib abs str

'STR' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'

The following are valid formats:

ABS ----- GI and AB
 ALL ----- BIB, AB, IND, RE
 APPS ----- AI, PRAI
 BIB ----- AN, plus Bibliographic Data and PI table (default)
 CAN ----- List of CA abstract numbers without answer numbers
 CBIB ----- AN, plus Compressed Bibliographic Data
 DALL ----- ALL, delimited (end of each field identified)
 DMAX ----- MAX, delimited for post-processing
 FAM ----- AN, PI and PRAI in table, plus Patent Family data
 FBIB ----- AN, BIB, plus Patent FAM
 IND ----- Indexing data
 IPC ----- International Patent Classifications
 MAX ----- ALL, plus Patent FAM, RE
 PATS ----- PI, SO
 SAM ----- CC, SX, TI, ST, IT
 SCAN ----- CC, SX, TI, ST, IT (random display, no answer numbers;
 SCAN must be entered on the same line as the DISPLAY,
 e.g., D SCAN or DISPLAY SCAN)
 STD ----- BIB, IPC, and NCL

 IABS ----- ABS, indented with text labels
 IALL ----- ALL, indented with text labels
 IBIB ----- BIB, indented with text labels
 IMAX ----- MAX, indented with text labels
 ISTD ----- STD, indented with text labels

 OBIB ----- AN, plus Bibliographic Data (original)
 OIBIB ----- OBIB, indented with text labels

 SBIB ----- BIB, no citations
 SIBIB ----- IBIB, no citations

 HIT ----- Fields containing hit terms
 HITIND ----- IC, ICA, ICI, NCL, CC and index field (ST and IT)
 containing hit terms
 HITRN ----- HIT RN and its text modification
 HITSTR ----- HIT RN, its text modification, its CA index name, and
 its structure diagram
 FHITSTR ----- First HIT RN, its text modification, its CA index name, and
 its structure diagram
 KWIC ----- Hit term plus 20 words on either side
 OCC ----- Number of occurrence of hit term and field in which it occurs

To display a particular field or fields, enter the display field codes. For a list of the display field codes, enter HELP DFIELDS at an arrow prompt (=>). Examples of formats include: TI; TI,AU; BIB,ST; TI,IND; TI,SO. You may specify the format fields in any order and the information will be displayed in the same order as the format specification.

All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR, FHITSTR, KWIC, and OCC) may be used with DISPLAY ACC to view a specified Accession Number.
 ENTER DISPLAY FORMAT (BIB):end

=> d his

(FILE 'HOME' ENTERED AT 12:56:18 ON 01 OCT 2001)

FILE 'REGISTRY' ENTERED AT 12:56:49 ON 01 OCT 2001

L1 STRUCTURE UPLOADED
 L2 QUE L1
 L3 50 S L1 SAM

FILE 'CAPLUS' ENTERED AT 12:59:32 ON 01 OCT 2001
S L1 AND POLYMER?

FILE 'REGISTRY' ENTERED AT 12:59:40 ON 01 OCT 2001
L4 50 S L1

FILE 'CAPLUS' ENTERED AT 12:59:41 ON 01 OCT 2001
L5 52 S L4
L6 4 S L5 AND POLYMER?

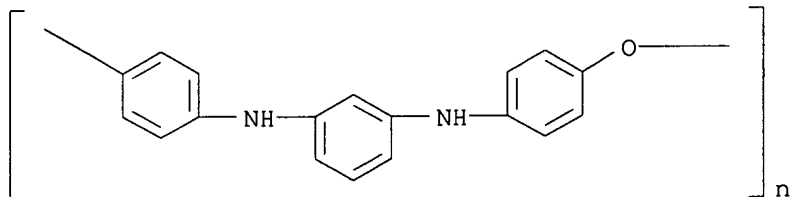
=> 1-4 ibib ti hitstr abs

1-4 IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> d 1-4 ibib ti hitstr abs

L6 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 2000:832137 CAPLUS
DOCUMENT NUMBER: 134:71951
TITLE: Preparation of meta-polyaniline and its related
poly(iminoarylene)s by nickel-catalyzed
polycondensation of aryl dichlorides with aryl
primary
diamines
AUTHOR(S): Kanbara, Takaki; Miyazaki, Yuko; Hasegawa, Kiyoshi;
Yamamoto, Takakazu
CORPORATE SOURCE: Chemical Resources Laboratory, Tokyo Institute of
Technology, Yokohama, 226-8503, Japan
SOURCE: J. Polym. Sci., Part A: Polym. Chem. (2000), 38(23),
4194-4199
CODEN: JPACEC; ISSN: 0887-624X
PUBLISHER: John Wiley & Sons, Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English
TI Preparation of meta-polyaniline and its related poly(iminoarylene)s by
nickel-catalyzed polycondensation of aryl dichlorides with aryl primary
diamines
IT 221685-68-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of meta-polyaniline and its related poly(iminoarylene)s by
nickel-catalyzed polycondensation of aryl dichlorides with aryl
primary
diamines)
RN 221685-68-3 CAPLUS
CN Poly(oxy-1,4-phenyleneimino-1,3-phenyleneimino-1,4-phenylene) (9CI) (CA
INDEX NAME)



AB The catalyst system generated from com. available bis(1,5-cyclooctadiene)nickel(0) and 1,1'-bis(diphenylphosphino)ferrocene is shown

to be effective in **polymn.** of aryl dichlorides with aryl primary diamines. The system was also used for prepn. of m-polyaniline from m-dichlorobenzene and m-phenylenediamine. The **polymers** obtained were characterized with respect to their structure, polydispersity, and soly. in org. solvents.

REFERENCE COUNT: 31
REFERENCE(S): (1) Bei, X; Tetrahedron Lett 1999, V40, P1237 CAPLUS
(2) Beletskaya, I; Synlett 1999, P1459 CAPLUS
(3) Brenner, E; Tetrahedron 1999, V55, P12829 CAPLUS
(4) Brenner, E; Tetrahedron Lett 1998, V39, P5359 CAPLUS
(6) Desmarets, C; Tetrahedron Lett 2000, V41, P2875 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

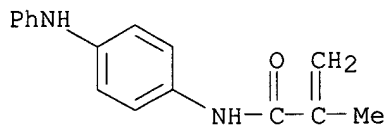
L6 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 2000:594182 CAPLUS
DOCUMENT NUMBER: 133:310209
TITLE: Synthesis and characterization of **polymers** with oligoaniline side chains
AUTHOR(S): Benicewicz, Brian C.; Chen, Ru
CORPORATE SOURCE: Department of Chemistry Rensselaer Polytechnic Institute, New York State Center for Polymer Synthesis, Troy, NY, 12180, USA
SOURCE: Polym. Prepr. (Am. Chem. Soc., Div. Polym. Chem.) (2000), 41(2), 1733-1734
CODEN: ACPPAY; ISSN: 0032-3934
PUBLISHER: American Chemical Society, Division of Polymer Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
TI Synthesis and characterization of **polymers** with oligoaniline side chains
IT **301816-95-5P**, N-(4-Anilinophenyl)methacrylamide homopolymer
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (prepn. of monomers and radical **polymn.** to obtain (meth)acrylic **polymers** with oligoaniline side chains)
RN 301816-95-5 CAPLUS
CN 2-Propenamamide, 2-methyl-N-[4-(phenylamino)phenyl]-, homopolymer (9CI)
(CA

INDEX NAME)

CM 1

CRN 41543-92-4

CMF C16 H16 N2 O

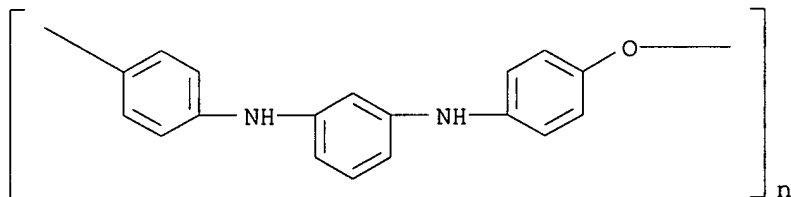


AB (meth)acrylamide and (meth)acrylate monomers contg. oligoaniline side chain units were prepd. by a modified Ullman condensation reaction to prep. the arylamine side groups with Cu as reactant and catalyst or by Pd catalyzed amination of aryl halides and triflates. The monomers prepd. are N-(4-anilinophenyl)methacrylamide (M1), N-[4-(N'-acetyl-N'-phenyl)amino]phenyl methacrylamide (M2), and (M4); other monomers were also prepd. by the method of D. Braun and S. Hauge (1971). Free radical **polymn.** using AIBN initiator of these monomers produces **polymers** with oligoanilines incorporated into the **polymer** as side chains with control of the side chain length and content of

electroactive species. The soly. of the **polymers** is dependent on the extent of acetyl substitution, the inherent viscosity is 0.1 to 0.3 dL/g, and. The glass transition temp. of the homo-poly(methacrylamide)s is 183, 220, and 207.degree., for M1, M2, and M4, resp.

REFERENCE COUNT: 15
 REFERENCE(S): (1) Braun, D; Makromol Chem 1971, V150, P57 CAPLUS
 (2) Cohen, J; US 5135682 1992 CAPLUS
 (4) Hartwig, J; Angew Chem Int Ed 1998, V37, P2046 CAPLUS
 (7) Lucarini, M; J Am Chem Soc 1999, V121, P11546 CAPLUS
 (8) Parker, D; Rubber Chem Technol 1989, V62, P732 CAPLUS
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1999:143013 CAPLUS
 DOCUMENT NUMBER: 130:252746
 TITLE: Preparation of soluble poly(iminoarylene)s by palladium-catalyzed polycondensation of aryl dibromides with aryl primary diamines
 AUTHOR(S): Kanbara, Takaki; Nakadani, Yoshiko; Hasegawa, Kiyoshi
 CORPORATE SOURCE: Department of Chemical and Biochemical Engineering, Faculty of Engineering, Toyama University, Toyama, 930-8555, Japan
 SOURCE: Polym. J. (Tokyo) (1999), 31(2), 206-209
 CODEN: POLJB8; ISSN: 0032-3896
 PUBLISHER: Society of Polymer Science, Japan
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 TI Preparation of soluble poly(iminoarylene)s by palladium-catalyzed polycondensation of aryl dibromides with aryl primary diamines
 IT **221685-68-3P**, 1,3-Dibromobenzene-4,4'-oxydianiline copolymer, SRU
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of arom. polyamines in presence of palladium catalyst)
 RN 221685-68-3 CAPLUS
 CN Poly(oxy-1,4-phenyleneimino-1,3-phenyleneimino-1,4-phenylene) (9CI) (CA INDEX NAME)



AB A catalyst based on tris(dibenzylideneacetone)dipalladium and 2,2'-bis(diphenylphosphino)-1,1'-binaphthyl was used for the polycondensation of m-phenylene dibromide, 4,4'-dibromodiphenyl oxide, 2,6-dibromopyridine, or 3,5-dibromopyridine, with arom. or heterocyclic diamines to give arom. polyamines.

REFERENCE COUNT: 31
 REFERENCE(S): (1) Driver, M; J Am Chem Soc 1997, V119, P8232 CAPLUS
 (2) Goodson, F; Macromolecules 1998, V31, P1700 CAPLUS
 (3) Goto, H; Synth Met 1997, V85, P1683 CAPLUS
 (4) Guram, A; Angew Chem Int Ed Engl 1995, V34, P1348 CAPLUS
 (5) Hartwig, J; J Am Chem Soc 1996, V118, P3626 CAPLUS
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

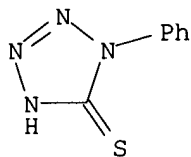
ACCESSION NUMBER: 1998:735408 CAPLUS
 DOCUMENT NUMBER: 130:45210
 TITLE: Silver halide photographic material using
 gelatin-compatible **polymer** as high
 contrast-promoting agent
 INVENTOR(S): Furukawa, Akira; Mitsui, Shinobu
 PATENT ASSIGNEE(S): Mitsubishi Paper Mills, Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 10301220	A2	19981113	JP 1997-104844	19970422
TI	Silver halide photographic material using gelatin-compatible polymer as high contrast-promoting agent				
IT	216964-98-6P				
	RL: MOA (Modifier or additive use); PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (photog. film contg. gelatin-compatible polymer as high contrast promoting agent)				
RN	216964-98-6 CAPLUS				
CN	Acetic acid, [[3-(diethylamino)propyl]amino]oxo-, 2-[4-[(4-ethenylphenyl)amino]phenyl]hydrazide, telomer with 1,2-dihydro-1-phenyl-5H-tetrazole-5-thione (9CI) (CA INDEX NAME)				

CM 1

CRN 86-93-1

CMF C7 H6 N4 S



CM 2

CRN 216964-97-5

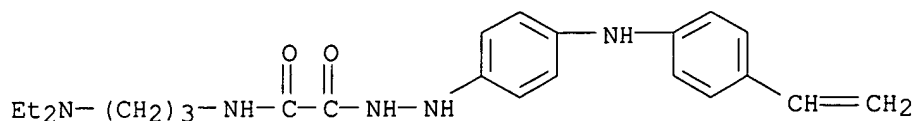
CMF (C23 H31 N5 O2) x

CCI PMS

CM 3

CRN 216964-96-4

CMF C23 H31 N5 O2



AB The title material contains a **polymer** having a functional group
selected from SX (X = N-contg. heterocyclic group) and SC(:S)NR1R2 (R1,
R2
= alkyl which may form a ring) which links to its termini in .gtoreq.1 of
the constitutive layers. The **polymer** shows high compatibility
with gelatin and has no influence on the photog. properties, and the
material shows good storage stability, high sensitivity, and high
contrast.

=> log h

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	18.96	21.30
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-2.35	-2.35

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 13:01:02 ON 01 OCT 2001
Connection closed by remote host

Trying 3106016892...Open

Welcome to STN International! Enter x:x
LOGINID:ssspal745sxt
PASSWORD:
* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 13:08:21 ON 01 OCT 2001
FILE 'CAPLUS' ENTERED AT 13:08:21 ON 01 OCT 2001
COPYRIGHT (C) 2001 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	18.96	21.30
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-2.35	-2.35

=> d his

(FILE 'HOME' ENTERED AT 12:56:18 ON 01 OCT 2001)
FILE 'REGISTRY' ENTERED AT 12:56:49 ON 01 OCT 2001
L1 STRUCTURE UPLOADED
L2 QUE L1
L3 50 S L1 SAM
FILE 'CAPLUS' ENTERED AT 12:59:32 ON 01 OCT 2001
S L1 AND POLYMER?
FILE 'REGISTRY' ENTERED AT 12:59:40 ON 01 OCT 2001
L4 50 S L1
FILE 'CAPLUS' ENTERED AT 12:59:41 ON 01 OCT 2001
L5 52 S L4
L6 4 S L5 AND POLYMER?

=> s l1 and poly?

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

SAMPLE SEARCH INITIATED 13:08:42 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 9510 TO ITERATE

10.5% PROCESSED 1000 ITERATIONS 50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 184366 TO 196034
PROJECTED ANSWERS: 52933 TO 59283

L7 50 SEA SSS SAM L1

L8 52 L7

2909891 POLY?
L9 10 L8 AND POLY?

=> d his

(FILE 'HOME' ENTERED AT 12:56:18 ON 01 OCT 2001)

FILE 'REGISTRY' ENTERED AT 12:56:49 ON 01 OCT 2001
L1 STRUCTURE UPLOADED
L2 QUE L1
L3 50 S L1 SAM

FILE 'CAPLUS' ENTERED AT 12:59:32 ON 01 OCT 2001
S L1 AND POLYMER?

FILE 'REGISTRY' ENTERED AT 12:59:40 ON 01 OCT 2001
L4 50 S L1

FILE 'CAPLUS' ENTERED AT 12:59:41 ON 01 OCT 2001
L5 52 S L4
L6 4 S L5 AND POLYMER?
S L1 AND POLY?

FILE 'REGISTRY' ENTERED AT 13:08:41 ON 01 OCT 2001
L7 50 S L1

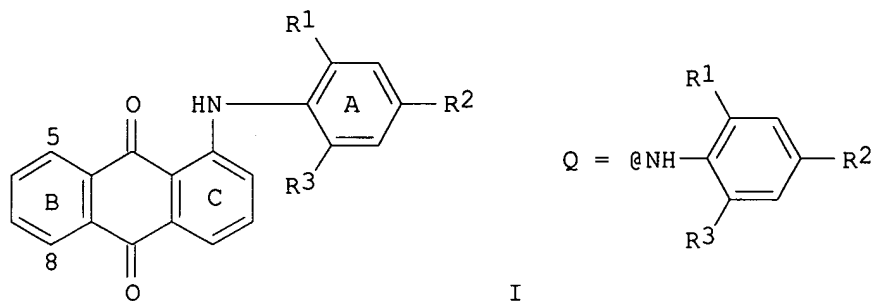
FILE 'CAPLUS' ENTERED AT 13:08:43 ON 01 OCT 2001
L8 52 S L7
L9 10 S L8 AND POLY?

=> d 1-10 ibib ti abs hitstr

L9 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 2001:499721 CAPLUS
DOCUMENT NUMBER: 135:93918
TITLE: Novel anthraquinone pigments, their manufacture,
coloration of synthetic materials by kneading with
the

INVENTOR(S): pigments, and the colored synthetic materials
 Adan, Jan Marie
 PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding, Inc., Switz.
 SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001187844	A2	20010710	JP 2000-391886	20001225
EP 1127922	A1	20010829	EP 2000-811214	20001220
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
US 2001020432	A1	20010913	US 2000-749014	20001227
CN 1309151	A	20010822	CN 2000-137542	20001228
PRIORITY APPLN. INFO.:			EP 1999-811217	A 19991229
OTHER SOURCE(S):			MARPAT 135:93918	
TI Novel anthraquinone pigments, their manufacture, coloration of synthetic materials by kneading with the pigments, and the colored synthetic materials				
GI				

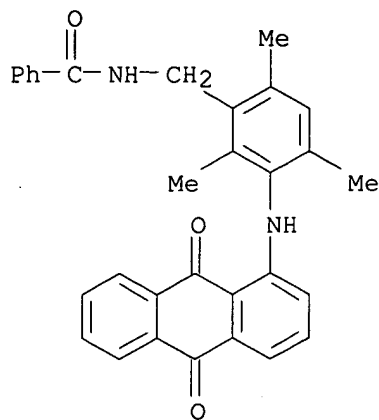


AB The color pigments I [R1 = C1-6 alkyl, C1-6 alkoxy, phenoxy, halo; R2 = H, C1-6 alkyl, C1-6 alkoxy, phenoxy, halo, acylamino, CH2NH-acyl, phthalimidomethyl; R3 = C1-6 alkyl, C1-6 alkoxy, phenoxy, halo; Ring A may be substituted with SO3-M+ (M+ = cation); Rings B and C may be substituted with halo, OH, SH, amino, C1-6 alkylamino, C1-6 alkyl, C1-6 alkoxy, phenoxy, acylamino, C1-6 thioalkyl, or thiophenyl; Ring B may be substituted with Q at 5- or 8-positions] are manufd. by reaction of 1-chloro-, 1-nitro-, or 1-sulfoanthraquinone with 1 equiv of 2,4,6-trialkylanilines or reaction of 1,5- or 1,8-dichloro-, 1,5- or 1,8-dinitro-, or 1,5- or 1,8-disulfoanthraquinone with 2 equiv of 2,4,6-trialkylanilines in the presence of alkali acetate, Cu, and/or Cu salts and optionally org. solvents.. Thus, condensation of 1-chloroanthraquinone with mesidine in the presence of Ca(OAc)2, Cu, and CuCl gave a coloring agent, which was kneaded with **polyamide 6** granules to give colored granules showing good light fastness.

IT **348574-75-4P**
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PRP (Properties); PREP (Preparation); USES (Uses)
 (manuf. of anthraquinone pigments for coloration of synthetic resins)

RN 348574-75-4 CAPLUS

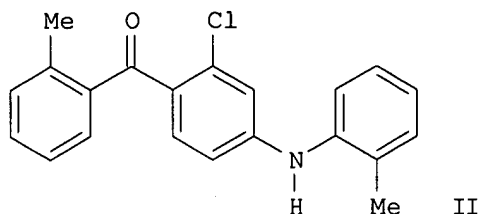
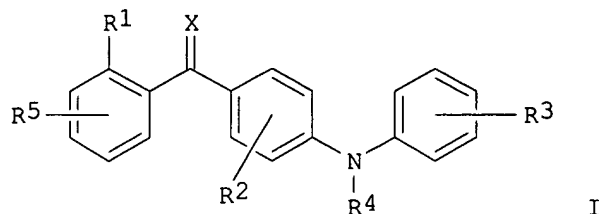
CN Benzamide, N-[[3-[(9,10-dihydro-9,10-dioxo-1-anthracenyl)amino]-2,4,6-trimethylphenyl)methyl]- (9CI) (CA INDEX NAME)



L9 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 2001:435023 CAPLUS
 DOCUMENT NUMBER: 135:45992
 TITLE: Aminobenzophenones as inhibitors of IL-1.beta. and TNF-.alpha.
 INVENTOR(S): Ottosen, Erik Rytter
 PATENT ASSIGNEE(S): Leo Pharmaceutical Products Ltd. A/s (Lovens Kemiske Fabrik Produktionsaktieselskab), Den.
 SOURCE: PCT Int. Appl., 57 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001042189	A1	20010614	WO 2000-DK653	20001129
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: US 1999-169333 P 19991206
 OTHER SOURCE(S): MARPAT 135:45992
 TI Aminobenzophenones as inhibitors of IL-1.beta. and TNF-.alpha.
 GI



AB Title compds. I are disclosed [wherein: R1 = halo, OH, SH, CF3, amino, (C1-3)alkyl, (C2-3)olefinic, (C1-3)alkoxy, (C1-3)alkylthio, (C1-6)alkylamino, (C1-3)alkoxycarbonyl, cyano, CONH2, Ph, and NO2; R2 = one or more of H, halo, OH, SH, CF3, amino, (C1-3)alkyl, (C2-3)olefinic, (C1-3)alkoxy, (C1-3)alkylthio, (C1-6)alkylamino, (C1-3)alkoxycarbonyl, cyano, CONH2, Ph, and NO2; R3 = one or more of H, halo, OH, SH, CF3, cyano, CO2H, carbamoyl, (C1-10)alkyl, (C2-10)olefinic, (C3-8)monocyclic hydrocarbon, (C1-10)alkoxy, (C1-10)alkylthio, (C1-10)alkoxycarbonyl, and Ph; R4 = H, (C1-6)alkyl, (C2-6)olefinic, or (C3-6)monocyclic hydrocarbon; R5 = one or more of H and R1; X = O, S, or N-OH; and salts thereof with pharmaceutically acceptable acids, hydrates and solvates; with 9 specific exclusions]. The compds. are cytokine inhibitors, and may be used in the prophylaxis or treatment of a variety of inflammatory and other diseases. They may be administered in combination with a variety of other drugs and drug classes. Examples include prepn. of 46 I [X = O] and 18 precursors.

Claims cover these compds. I and the analogous I [X = S, N-OH]. For instance, 2-bromotoluene was lithiated, converted to an organozinc compd.,

and coupled with 2-chloro-4-nitrobenzoyl chloride under Pd(0) catalysis to

give 2-chloro-2'-methyl-4-nitrobenzophenone. This was reduced with SnCl2 in EtOH to give the amine, which was coupled with 2-bromotoluene in the presence of NaOBu-t, Pd2(dba)3, and BINAP, to give title compd. II. This compd. inhibited IL-1.β., TNF-α., and PMN-superoxide prodn. with IC50 values of 13, 4.0, and 6.3 nM, resp.

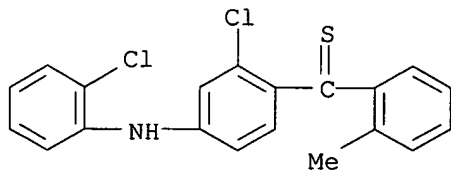
IT **344458-32-8P**, 2-Chloro-4-(2-chlorophenylamino)-2'-methyl(thiobenzophenone)

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; prepn. of aminobenzophenones as inhibitors of IL-1.β. and TNF-α.)

RN 344458-32-8 CAPLUS

CN Methanethione,
[2-chloro-4-[(2-chlorophenyl)amino]phenyl](2-methylphenyl)-
(9CI) (CA INDEX NAME)



REFERENCE COUNT: 1
 REFERENCE(S): (1) Leo Pharmaceutical Products Ltd AS; WO 9832730 A1
 1998 CAPLUS

L9 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 2001:63959 CAPLUS

DOCUMENT NUMBER: 134:115755

TITLE: Preparation of aminobenzophenones as inhibitors of
 IL-1.beta. and TNF-.alpha.

INVENTOR(S): Ottosen, Erik Rytter; Dannacher, Heinz Wilhelm

PATENT ASSIGNEE(S): Leo Pharmaceutical Products Ltd. A/S (Lovens Kemiske
 Fabrik Produktionsaktie, Den.

SOURCE: PCT Int. Appl., 45 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

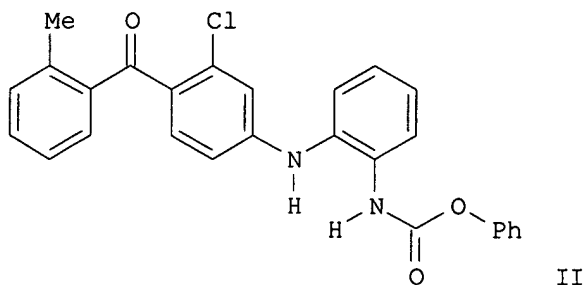
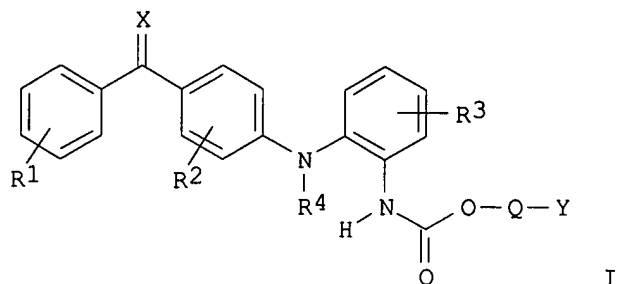
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001005749	A1	20010125	WO 2000-DK386	20000711
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				
CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,				
HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,				
LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,				
SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,				
YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,				
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,				
CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: US 1999-144063 P 19990716

OTHER SOURCE(S): MARPAT 134:115755

TI Preparation of aminobenzophenones as inhibitors of IL-1.beta. and
 TNF-.alpha.

GI



AB The title compds. [I; R1-R3 = H, halo, OH, etc.; R4 = H, alkyl, allyl; Q = a bond, CR6R7OCO (wherein R6, R7 = H, CF3, alkyl); Y = alkyl, alkenyl, cycloalkyl, etc.; X = O, S] which are able to inhibit the prodn. of IL-1.β., TNF-α. and PMN-superoxide prodn., were prepd. and formulated. Thus, reacting 4-(2-aminophenylamino)-2-chloro-2'-methylbenzophenone with Ph chloroformate in the presence of N-Et diisopropylamine in CH2Cl2 afforded II which showed IC50 of 50 nM and of 10 nM against IL-1.β. and TNF.α. prodn., resp.

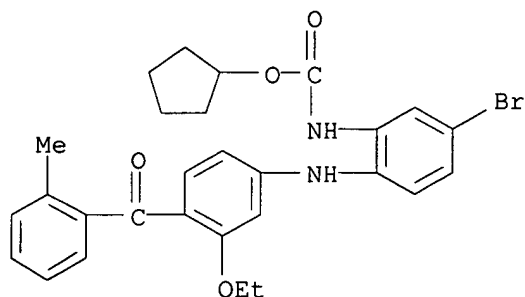
IT **321359-11-9P**

RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of aminobenzophenones as inhibitors of IL-1.β. and TNF-α.)

RN 321359-11-9 CAPLUS

CN Carbamic acid,

[5-bromo-2-[[3-ethoxy-4-(2-methylbenzoyl)phenyl]amino]phenyl]-, cyclopentyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT:

1

REFERENCE(S):

(1) Leo Pharmaceutical Products Ltd AS; WO 9832730 A1
1998 CAPLUS

ACCESSION NUMBER: 2000:832137 CAPLUS

DOCUMENT NUMBER: 134:71951

TITLE: Preparation of meta-**polyaniline** and its related **poly**(iminoarylene)s by nickel-catalyzed **polycondensation** of aryl dichlorides with aryl primary diamines

AUTHOR(S): Kanbara, Takaki; Miyazaki, Yuko; Hasegawa, Kiyoshi; Yamamoto, Takakazu

CORPORATE SOURCE: Chemical Resources Laboratory, Tokyo Institute of Technology, Yokohama, 226-8503, Japan

SOURCE: J. Polym. Sci., Part A: Polym. Chem. (2000), 38(23), 4194-4199

CODEN: JPACEC; ISSN: 0887-624X

PUBLISHER: John Wiley & Sons, Inc.

DOCUMENT TYPE: Journal

LANGUAGE: English

TI Preparation of meta-**polyaniline** and its related **poly**(iminoarylene)s by nickel-catalyzed **polycondensation** of aryl dichlorides with aryl primary diamines

AB The catalyst system generated from com. available bis(1,5-cyclooctadiene)nickel(0) and 1,1'-bis(diphenylphosphino)ferrocene is shown

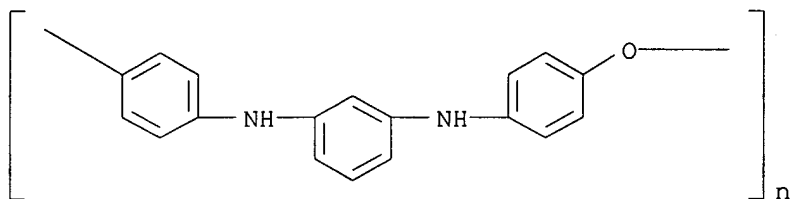
to be effective in **polymn.** of aryl dichlorides with aryl primary diamines. The system was also used for prepn. of m-**polyaniline** from m-dichlorobenzene and m-phenylenediamine. The **polymers** obtained were characterized with respect to their structure, **polydispersity**, and soly. in org. solvents.

IT 221685-68-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of meta-**polyaniline** and its related **poly**(iminoarylene)s by nickel-catalyzed **polycondensation** of aryl dichlorides with aryl primary diamines)

RN 221685-68-3 CAPLUS

CN Poly(oxy-1,4-phenyleneimino-1,3-phenyleneimino-1,4-phenylene) (9CI) (CA INDEX NAME)



REFERENCE COUNT: 31

REFERENCE(S): (1) Bei, X; Tetrahedron Lett 1999, V40, P1237 CAPLUS
(2) Beletskaya, I; Synlett 1999, P1459 CAPLUS
(3) Brenner, E; Tetrahedron 1999, V55, P12829 CAPLUS
(4) Brenner, E; Tetrahedron Lett 1998, V39, P5359 CAPLUS
(6) Desmarests, C; Tetrahedron Lett 2000, V41, P2875 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

ACCESSION NUMBER: 2000:594182 CAPLUS

DOCUMENT NUMBER: 133:310209

TITLE: Synthesis and characterization of **polymers** with oligoaniline side chains

AUTHOR(S): Benicewicz, Brian C.; Chen, Ru

CORPORATE SOURCE: Department of Chemistry Rensselaer Polytechnic Institute, New York State Center for Polymer

SOURCE: Synthesis, Troy, NY, 12180, USA
 Polym. Prepr. (Am. Chem. Soc., Div. Polym. Chem.)
 (2000), 41(2), 1733-1734
 CODEN: ACPPAY; ISSN: 0032-3934

PUBLISHER: American Chemical Society, Division of Polymer
 Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

TI Synthesis and characterization of **polymers** with oligoaniline
 side chains

AB (meth)acrylamide and (meth)acrylate monomers contg. oligoaniline side
 chain units were prepd. by a modified Ullman condensation reaction to
 prep. the arylamine side groups with Cu as reactant and catalyst or by Pd
 catalyzed amination of aryl halides and triflates. The monomers prepd.
 are N-(4-anilinophenyl)methacrylamide (M1), N-[4-(N'-acetyl-N'-
 phenyl)amino]phenyl methacrylamide (M2), and (M4); other monomers were
 also prepd. by the method of D. Braun and S. Hauge (1971). Free radical
polymn. using AIBN initiator of these monomers produces
polymers with oligoanilines incorporated into the **polymer**
 as side chains with control of the side chain length and content of
 electroactive species. The soly. of the **polymers** is dependent
 on the extent of acetyl substitution, the inherent viscosity is 0.1 to
 0.3 dL/g, and. The glass transition temp. of the homo-**poly**
 (methacrylamide)s is 183, 220, and 207.degree., for M1, M2, and M4, resp.

IT **301816-95-5P**, N-(4-Anilinophenyl)methacrylamide homopolymer
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of monomers and radical **polymn.** to obtain
 (meth)acrylic **polymers** with oligoaniline side chains)

RN 301816-95-5 CAPLUS

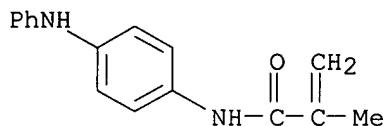
CN 2-Propenamamide, 2-methyl-N-[4-(phenylamino)phenyl]-, homopolymer (9CI)

(CA INDEX NAME)

CM 1

CRN 41543-92-4

CMF C16 H16 N2 O



REFERENCE COUNT: 15

REFERENCE(S): (1) Braun, D; Makromol Chem 1971, V150, P57 CAPLUS
 (2) Cohen, J; US 5135682 1992 CAPLUS
 (4) Hartwig, J; Angew Chem Int Ed 1998, V37, P2046
 CAPLUS
 (7) Lucarini, M; J Am Chem Soc 1999, V121, P11546
 CAPLUS
 (8) Parker, D; Rubber Chem Technol 1989, V62, P732
 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1999:143013 CAPLUS

DOCUMENT NUMBER: 130:252746

TITLE: Preparation of soluble **poly**(iminoarylene)s
 by palladium-catalyzed **polycondensation** of
 aryl dibromides with aryl primary diamines

AUTHOR(S): Kanbara, Takaki; Nakadani, Yoshiko; Hasegawa, Kiyoshi

CORPORATE SOURCE: Department of Chemical and Biochemical Engineering,
Faculty of Engineering, Toyama University, Toyama,
930-8555, Japan

SOURCE: Polym. J. (Tokyo) (1999), 31(2), 206-209
CODEN: POLJB8; ISSN: 0032-3896

PUBLISHER: Society of Polymer Science, Japan

DOCUMENT TYPE: Journal

LANGUAGE: English

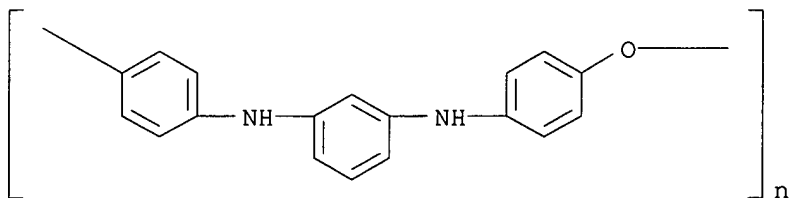
TI Preparation of soluble **poly**(iminoarylene)s by
palladium-catalyzed **polycondensation** of aryl dibromides with
aryl primary diamines

AB A catalyst based on tris(dibenzylideneacetone)dipalladium and
2,2'-bis(diphenylphosphino)-1,1'-binaphthyl was used for the
polycondensation of m-phenylene dibromide, 4,4'-dibromodiphenyl
oxide, 2,6-dibromopyridine, or 3,5-dibromopyridine, with arom. or
heterocyclic diamines to give arom. **polyamines**.

IT **221685-68-3P**, 1,3-Dibromobenzene-4,4'-oxydianiline copolymer, SRU
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of arom. **polyamines** in presence of palladium
catalyst)

RN 221685-68-3 CAPLUS

CN Poly(oxy-1,4-phenyleneimino-1,3-phenyleneimino-1,4-phenylene) (9CI) (CA
INDEX NAME)



REFERENCE COUNT: 31

REFERENCE(S): (1) Driver, M; J Am Chem Soc 1997, V119, P8232 CAPLUS
(2) Goodson, F; Macromolecules 1998, V31, P1700

CAPLUS (3) Goto, H; Synth Met 1997, V85, P1683 CAPLUS
(4) Guram, A; Angew Chem Int Ed Engl 1995, V34, P1348
CAPLUS
(5) Hartwig, J; J Am Chem Soc 1996, V118, P3626

CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1998:735408 CAPLUS

DOCUMENT NUMBER: 130:45210

TITLE: Silver halide photographic material using
gelatin-compatible **polymer** as high
contrast-promoting agent

INVENTOR(S): Furukawa, Akira; Mitsui, Shinobu

PATENT ASSIGNEE(S): Mitsubishi Paper Mills, Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
TI	JP 10301220	A2	19981113	JP 1997-104844	19970422
	Silver halide photographic material using gelatin-compatible polymer as high contrast-promoting agent				

AB The title material contains a **polymer** having a functional group selected from SX (X = N-contg. heterocyclic group) and SC(:S)NR1R2 (R1, R2 = alkyl which may form a ring) which links to its termini in .gtoreq.1 of the constitutive layers. The **polymer** shows high compatibility with gelatin and has no influence on the photog. properties, and the material shows good storage stability, high sensitivity, and high contrast.

IT **216964-98-6P**
 RL: MOA (Modifier or additive use); PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (photog. film contg. gelatin-compatible **polymer** as high contrast promoting agent)

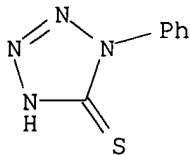
RN 216964-98-6 CAPLUS

CN Acetic acid, [[3-(diethylamino)propyl]amino]oxo-, 2-[4-[(4-ethenylphenyl)amino]phenyl]hydrazide, telomer with 1,2-dihydro-1-phenyl-5H-tetrazole-5-thione (9CI) (CA INDEX NAME)

CM 1

CRN 86-93-1

CMF C7 H6 N4 S



CM 2

CRN 216964-97-5

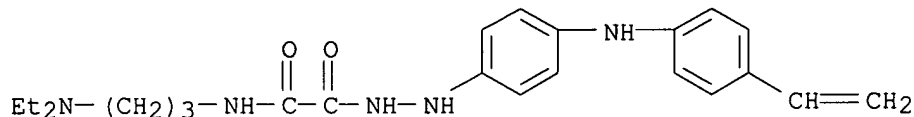
CMF (C23 H31 N5 O2)x

CCI PMS

CM 3

CRN 216964-96-4

CMF C23 H31 N5 O2



L9 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1998:527309 CAPLUS

DOCUMENT NUMBER: 129:148822

TITLE: Preparation and formulation of aminobenzophenones as inhibitors of interleukin and TNF

INVENTOR(S): Ottosen, Erik Rytter; Rachlin, Schneur

PATENT ASSIGNEE(S): Leo Pharmaceutical Products Ltd. A/S (Lovens Kemiske Fabrik Produktionsaktie, Den.

SOURCE: PCT Int. Appl., 81 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

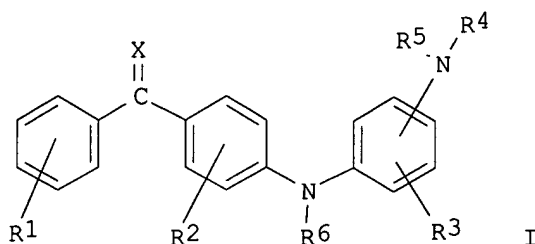
LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9832730	A1	19980730	WO 1998-DK8	19980108
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9854781	A1	19980818	AU 1998-54781	19980108
AU 733561	B2	20010517		
EP 966424	A1	19991229	EP 1998-900270	19980108
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2001511771	T2	20010814	JP 1998-531499	19980108
PRIORITY APPLN. INFO.:			GB 1997-1453	A 19970124
			WO 1998-DK8	W 19980108

OTHER SOURCE(S): MARPAT 129:148822

TI Preparation and formulation of aminobenzophenones as inhibitors of interleukin and TNF

GI



AB The title compds. I [R1 and R2 stand independently for one or more, similar or different substituents selected from the group consisting of hydrogen, halogen, hydroxy, mercapto, trifluoromethyl, amino, alkyl, alkoxy, alkylthio, alkylamino, or alkoxy carbonyl, the C-content of which can be from 1 to 5, cyano, carboxy, carbamoyl, Ph, or nitro; R3 stands for hydrogen, halogen, hydroxy, mercapto, trifluoromethyl, amino, alkyl, alkoxy, alkylthio, alkylamino, or alkoxy carbonyl, the C-content of which can be from 1 to 5, Ph, cyano, carboxy, or carbamoyl; R4, R5 and R6 stand independently for hydrogen, trifluoromethyl, alkyl, carbamoyl, alkoxy carbonyl, or alkyloxy, the C-content of which can be from 1 to 5; X stands for oxygen, NOH, NO-alkyl, dialkoxy, cyclic dialkoxy, dialkylthio, or cyclic dialkylthio, the C-content of which can be from 1 to 5] are prepd. The present compds. are of value in the human and veterinary practice as systemic and topical therapeutic agents for the treatment and prophylaxis of asthma, allergy, rheumatoid arthritis, spondyloarthritis, gout, atherosclerosis, chronic inflammatory bowel disease, proliferative and inflammatory skin disorders, such as psoriasis, and atopic dermatitis.

In an in vitro test using human polymorphonuclear granulocytes, 4-(2-aminophenylamino)-2-chloro-2'-methylbenzophenone in vitro showed IC50 of 13 nM and 7.1 nM against the prodn. of Il-1.β. and TNF-α. resp. In the above test, 4-(2-aminophenylamino)benzophenone (II) in vitro

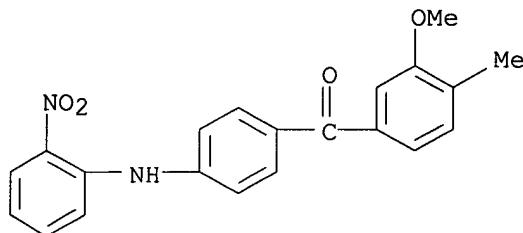
showed IC50 of 250 nM and 790 nM against the prodn. of Il-1.β. and TNF-α., resp. In the 12-O-tetradecanoylphorbol-13-acetate induced murine skin inflammation model, II showed activity equal to hydrocortisone.

IT 210966-89-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of aminobenzophenones as inhibitors of interleukin and TNF)

RN 210966-89-5 CAPLUS

CN Methanone, (3-methoxy-4-methylphenyl)[4-[(2-nitrophenyl)amino]phenyl]-
(9CI) (CA INDEX NAME)



L9 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1998:464194 CAPLUS

DOCUMENT NUMBER: 129:203263

TITLE: Colored peptides: synthesis, properties and use in preparation of peptide sub-library kits

AUTHOR(S): Sebestyen, Ferenc; Szendrei, Gyorgyi; Mak, Marianna; Doda, Margit; Illyes, Eszter; Szokan, Gyula; Kindla, Krisztina; Rapp, Wolfgang; Szego, Peter; Campian, Eugen; Furka, Arpad

CORPORATE SOURCE: Department of Organic Chemistry, Eotvos Lorand University, Budapest, H-1518/112, Hung.

SOURCE: J. Pept. Sci. (1998), 4(4), 294-299

CODEN: JPSIEI; ISSN: 1075-2617

PUBLISHER: John Wiley & Sons Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

TI Colored peptides: synthesis, properties and use in preparation of peptide sub-library kits

AB Several methods were developed for the solid-phase synthesis (SPPS) of colored peptides and peptide libraries. At first a bifunctional red compd.,

4-(4-(N-ethyl-N-(3-(tert-butoxycarbonyl)aminopropyl)amino)phenylazo)benzoic acid (Boc-EPAB), was coupled with chloromethyl resin to obtain

a

new solid support suitable for SPPS using tert-butoxycarbonyl (Boc) chem. Peptides synthesized on this colored resin had the chromophore at their C-termini. N-terminally colored peptides were synthesized on a traditional solid support, coupled with chromophoric carboxylic acid before cleavage. A model pentapeptide, Phe-Ala-Val-Leu-Gly, and its ten derivs. were synthesized and their properties studied. It was found that the presence of chromophores decreases the water soly. of peptides. However, insertion of solubilizing tags (penta-lysine sequences or **polyoxyethyl** chains) into the mol. of any colored deriv. resulted in enhancement of the soly. The RP-HPLC hydrophobicity indexes (.psi.0) of the colored peptides were also detd. because .psi.0 values are closely related to their water soly. A colored pentapeptide library was synthesized using the portioning-mixing method. Each component of this library contained the red azo dye (EPAB) and the penta-lysine tag.

Before

the last coupling step the samples were not mixed. All of the 19 sub-libraries obtained after cleavage were readily sol. in water, giving

intense red solns. The effect of chromophore (EPAB) and/or penta-lysine solubilizing tag on the biol. activity was also studied. Potencies of the bovine neurotensin 8-13 fragment and its different colored and penta-lysine derivs. were compared in isolated longitudinal muscle strips of guinea pig ileum. It was shown that the hexapeptide with penta-lysine tag had almost the same activity as the 8-13 fragment itself. The activity of the EPAB-deriv. was found to be rather low. However, the presence of the solubilizing tag in the colored hexapeptide compensated the neg. effect of the chromophore.

IT **212209-17-1P**

RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn., properties and use of dye conjugates in prepn. of peptides and combinatorial libraries)

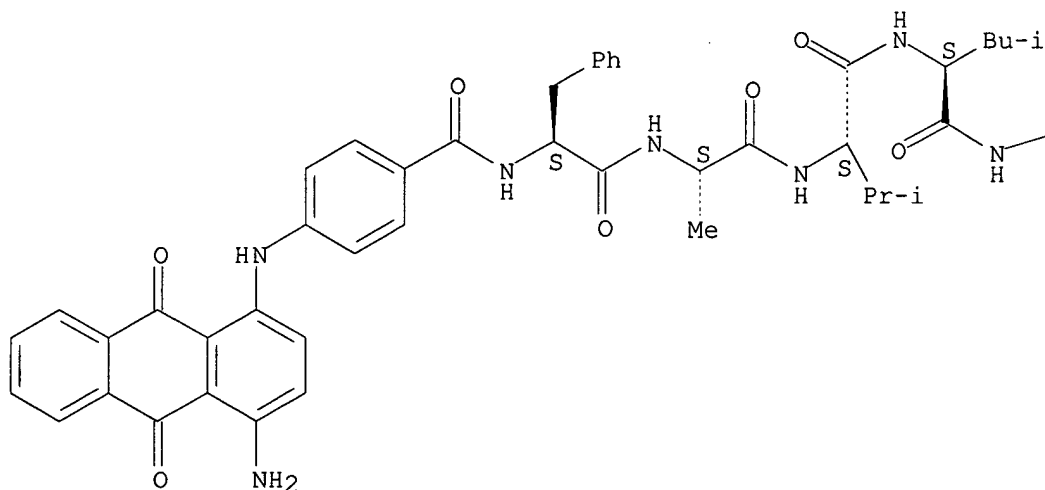
RN 212209-17-1 CAPLUS

CN L-Lysine, N-[4-[(4-amino-9,10-dihydro-9,10-dioxo-1-

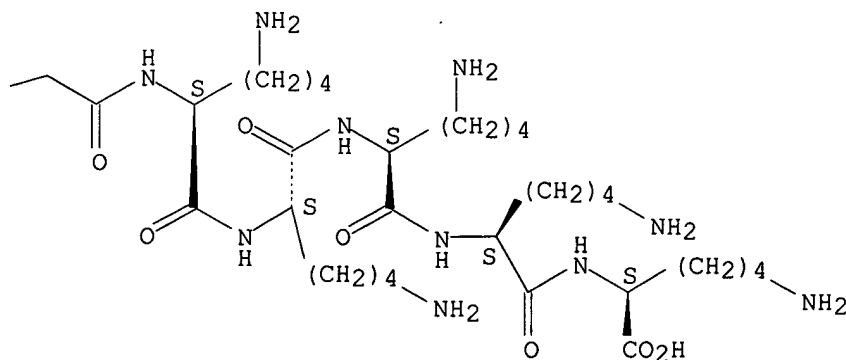
anthracenyl)amino]benzoyl]-L-phenylalanyl-L-alanyl-L-valyl-L-leucylglycyl-L-lysyl-L-lysyl-L-lysyl-L-lysyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



ACCESSION NUMBER: 1997:184100 CAPLUS

DOCUMENT NUMBER: 126:173020

TITLE: Dyes of salts of triphenylmethane compound with excellent solubility in alcohols and ink compositions containing them

INVENTOR(S): Ono, Takashi; Yagyu, Tatsuya; Saruwatari, Sachihiro

PATENT ASSIGNEE(S): Orient Chemical Ind, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

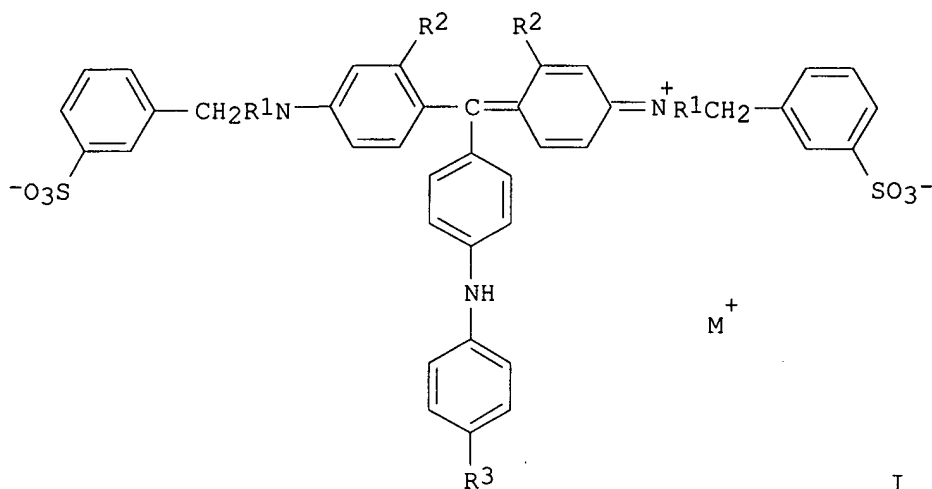
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08333517	A2	19961217	JP 1995-141891	19950608

OTHER SOURCE(S): MARPAT 126:173020

TI Dyes of salts of triphenylmethane compound with excellent solubility in alcohols and ink compositions containing them

GI



AB Triphenylmethane dye I (R1 = C3-6 alkyl; R2 = H, Me; R3 = C1-4 alkyl or alkoxy; M+ = C6-20 org. ammonium; n = 1-2) is synthesized and used in the alc.-based inks. Thus, 106 g benzaldehyde was condensed with 58 g N-benzyl-N-butyl-m-toluidine, trisulfonated, oxidized with MnO2, and treated with 137 g p-phenetidine to give 500 g I (R1 = Bu, R2 = Me; R3 = OEt), 91 g of which was dissolved in H2O, adjusted to pH 7, filtrated, salted with 22.5 g 3-(2-ethylhexyloxy)propylamine at room temp. for 2 h, adjusted to pH 5-6, treated at 40.degree., filtrated, washed, and dried

to

give a blue dye I (R1 = Bu; R2 = Me; R3 = OEt; M+ = NH3CH2CH2CH2CH2CH2EtBu)

showing soly. in EtOH 25 g/100 mL and max. absorption wavelength 610 nm. An ink comprising the dye 7, EtOH 68, benzyl alc. 5, Et lactate 10, a ketone resin 5, and Tamanol 510 5 g showed good storage stability, light resistance, and water resistance.

IT 187101-99-1P

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(dyes of salts of triphenylmethane compd. with good soly. in alc. solvents for inks)

RN 187101-99-1 CAPLUS

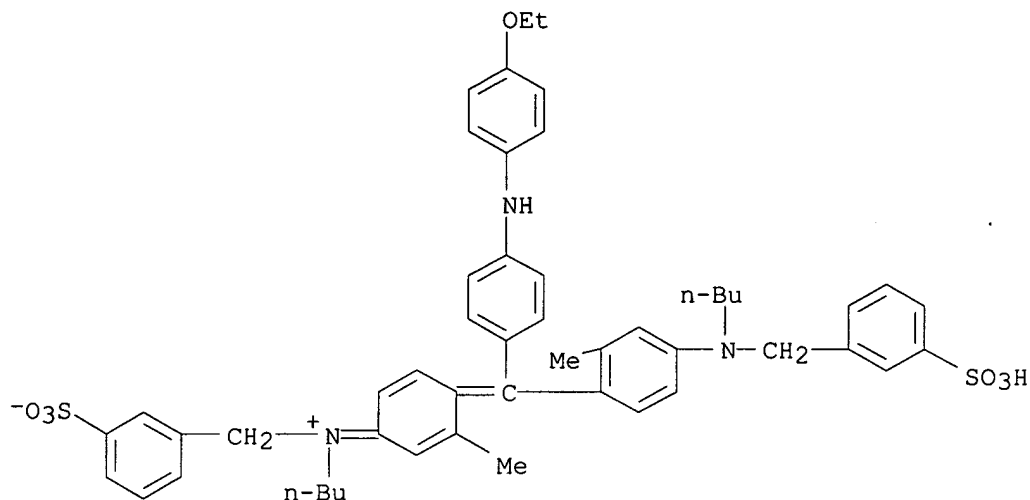
CN Benzenemethanaminium,

N-butyl-N-[4-[[4-[butyl[(3-sulfo-phenyl)methyl]amino]-2-methylphenyl][4-[(4-ethoxyphenyl)amino]phenyl]methylene]-3-methyl-2,5-cyclohexadien-1-ylidene]-3-sulfo-, inner salt, compd. with 3-butoxy-1-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 187101-96-8

CMF C51 H57 N3 O7 S2



CM 2

CRN 16499-88-0

CMF C7 H17 N O

H₂N-(CH₂)₃-OBu-n

=> log h

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

43.77

65.71

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-5.88

-8.23

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 13:09:33 ON 01 OCT 2001

Connection closed by remote host

Trying 3106016892...Open

Welcome to STN International! Enter x:x

LOGINID:sssptal745sxt

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 13:15:17 ON 01 OCT 2001
FILE 'CAPLUS' ENTERED AT 13:15:17 ON 01 OCT 2001
COPYRIGHT (C) 2001 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	43.77	65.71

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-5.88	-8.23

=> file registry

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	43.77	65.71

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-5.88	-8.23

FILE 'REGISTRY' ENTERED AT 13:15:24 ON 01 OCT 2001
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2001 American Chemical Society (ACS)

STRUCTURE FILE UPDATES: 30 SEP 2001 HIGHEST RN 359625-43-7
DICTIONARY FILE UPDATES: 30 SEP 2001 HIGHEST RN 359625-43-7

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Structure search limits have been increased. See HELP SLIMIT
for details.

=> s polybiphenylaniline

L10 0 POLYBIPHENYLANILINE
0 POLYBIPHENYLANILINE

=> d his

(FILE 'HOME' ENTERED AT 12:56:18 ON 01 OCT 2001)

FILE 'REGISTRY' ENTERED AT 12:56:49 ON 01 OCT 2001
L1 STRUCTURE UPLOADED
L2 QUE L1
L3 50 S L1 SAM

FILE 'CAPLUS' ENTERED AT 12:59:32 ON 01 OCT 2001
S L1 AND POLYMER?

FILE 'REGISTRY' ENTERED AT 12:59:40 ON 01 OCT 2001
L4 50 S L1

FILE 'CAPLUS' ENTERED AT 12:59:41 ON 01 OCT 2001
L5 52 S L4
L6 4 S L5 AND POLYMER?
S L1 AND POLY?

FILE 'REGISTRY' ENTERED AT 13:08:41 ON 01 OCT 2001
L7 50 S L1

FILE 'CAPLUS' ENTERED AT 13:08:43 ON 01 OCT 2001
L8 52 S L7
L9 10 S L8 AND POLY?

FILE 'REGISTRY' ENTERED AT 13:15:24 ON 01 OCT 2001
L10 0 S POLYBIPHENYLANILINE

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	4.11	69.82
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-8.23

FILE 'CAPLUS' ENTERED AT 13:15:58 ON 01 OCT 2001
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2001 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications.

FILE COVERS 1947 - 1 Oct 2001 VOL 135 ISS 15
FILE LAST UPDATED: 30 Sep 2001 (20010930/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

CAPLUS now provides online access to patents and literature covered in CA from 1947 to the present. On April 22, 2001, bibliographic information and abstracts were added for over 2.2 million references published in CA from 1947 to 1966.

The CA Lexicon is now available in the Controlled Term (/CT) field. Enter HELP LEXICON for full details.

Attention, the CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

=> s polybiphenylaniline

L11 1 POLYBIPHENYLANILINE

=> d his

(FILE 'HOME' ENTERED AT 12:56:18 ON 01 OCT 2001)

FILE 'REGISTRY' ENTERED AT 12:56:49 ON 01 OCT 2001

L1 STRUCTURE UPLOADED
L2 QUE L1
L3 50 S L1 SAM

FILE 'CAPLUS' ENTERED AT 12:59:32 ON 01 OCT 2001
S L1 AND POLYMER?

L4 FILE 'REGISTRY' ENTERED AT 12:59:40 ON 01 OCT 2001
50 S L1

L5 FILE 'CAPLUS' ENTERED AT 12:59:41 ON 01 OCT 2001
52 S L4
L6 4 S L5 AND POLYMER?
S L1 AND POLY?

L7 FILE 'REGISTRY' ENTERED AT 13:08:41 ON 01 OCT 2001
50 S L1

L8 FILE 'CAPLUS' ENTERED AT 13:08:43 ON 01 OCT 2001
52 S L7
L9 10 S L8 AND POLY?

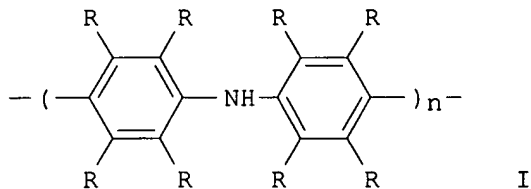
L10 FILE 'REGISTRY' ENTERED AT 13:15:24 ON 01 OCT 2001
0 S POLYBIPHENYLANILINE

L11 FILE 'CAPLUS' ENTERED AT 13:15:58 ON 01 OCT 2001
1 S POLYBIPHENYLANILINE

=> d 1 ibib ti abs hitstr

L11 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 2000:705482 CAPLUS
DOCUMENT NUMBER: 133:298753
TITLE: Electrodes and batteries
INVENTOR(S): Harada, Manabu; Nishiyama, Toshihiko; Fujiwara,
Masaki; Okada, Shinako; Kurosaki, Masato
PATENT ASSIGNEE(S): Nec Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
	JP 2000277118	A2	20001006	JP 1999-76573	19990319
	JP 3183280	B2	20010709		
TI	Electrodes and batteries				
GI					



AB The electrodes use active mass contg. **polybiphenylaniline**
derivs. The derivs. are I, where R = H, halogen, OH, carboxy, sulfone,

sulfuric acid, nitro, cyano, alkyl, aryl, alkoxy, aryloxy, amino, alkylthio, arylthio, or heterocyclic groups and may be different from each other. The batteries use the above electrodes as cathodes.

=> log h

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	4.05	73.87
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-0.59	-8.82

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 13:16:41 ON 01 OCT 2001
Connection closed by remote host

Trying 3106016892...Open

Welcome to STN International! Enter x:x

LOGINID:sssptal745sxt

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 13:17:33 ON 01 OCT 2001
FILE 'CAPLUS' ENTERED AT 13:17:33 ON 01 OCT 2001
COPYRIGHT (C) 2001 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	4.05	73.87
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-0.59	-8.82

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	4.05	73.87
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-0.59	-8.82

FILE 'CAPLUS' ENTERED AT 13:17:37 ON 01 OCT 2001
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2001 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications.

FILE COVERS 1947 - 1 Oct 2001 VOL 135 ISS 15
FILE LAST UPDATED: 30 Sep 2001 (20010930/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for

more information.

CAplus now provides online access to patents and literature covered in CA from 1947 to the present. On April 22, 2001, bibliographic information and abstracts were added for over 2.2 million references published in CA from 1947 to 1966.

The CA Lexicon is now available in the Controlled Term (/CT) field. Enter HELP LEXICON for full details.

Attention, the CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

=> s polymer? (5A) biphenylaniline

```
1372220 POLYMER?
  69521 POLYMD
  69521 POLYMD
    (POLYMD)
  24767 POLYMG
  261007 POLYMN
    6153 POLYMNS
  261758 POLYMN
    (POLYMN OR POLYMNS)
1423063 POLYMER?
    (POLYMER? OR POLYMD OR POLYMG OR POLYMN)
      0 BIPHENYLANILINE
L12      0 POLYMER? (5A) BIPHENYLANILINE
```

=> file registry

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	3.43	77.30
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-8.82

FILE 'REGISTRY' ENTERED AT 13:18:15 ON 01 OCT 2001
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2001 American Chemical Society (ACS)

STRUCTURE FILE UPDATES: 30 SEP 2001 HIGHEST RN 359625-43-7
DICTIONARY FILE UPDATES: 30 SEP 2001 HIGHEST RN 359625-43-7

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Structure search limits have been increased. See HELP SLIMIT for details.

=> s biphenylaniline

```
      0 BIPHENYLANILINE
L13      0 BIPHENYLANILINE
```

=> d his

(FILE 'HOME' ENTERED AT 12:56:18 ON 01 OCT 2001)

FILE 'REGISTRY' ENTERED AT 12:56:49 ON 01 OCT 2001
 L1 STRUCTURE UPLOADED
 L2 QUE L1
 L3 50 S L1 SAM

FILE 'CAPLUS' ENTERED AT 12:59:32 ON 01 OCT 2001
 S L1 AND POLYMER?

FILE 'REGISTRY' ENTERED AT 12:59:40 ON 01 OCT 2001
 L4 50 S L1

FILE 'CAPLUS' ENTERED AT 12:59:41 ON 01 OCT 2001
 L5 52 S L4
 L6 4 S L5 AND POLYMER?
 S L1 AND POLY?

FILE 'REGISTRY' ENTERED AT 13:08:41 ON 01 OCT 2001
 L7 50 S L1

FILE 'CAPLUS' ENTERED AT 13:08:43 ON 01 OCT 2001
 L8 52 S L7
 L9 10 S L8 AND POLY?

FILE 'REGISTRY' ENTERED AT 13:15:24 ON 01 OCT 2001
 L10 0 S POLYBIPHENYLANILINE

FILE 'CAPLUS' ENTERED AT 13:15:58 ON 01 OCT 2001
 L11 1 S POLYBIPHENYLANILINE

FILE 'CAPLUS' ENTERED AT 13:17:37 ON 01 OCT 2001
 L12 0 S POLYMER? (5A) BIPHENYLANILINE

FILE 'REGISTRY' ENTERED AT 13:18:15 ON 01 OCT 2001
 L13 0 S BIPHENYLANILINE

=> log h

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
FULL ESTIMATED COST	ENTRY	SESSION
	4.11	81.41
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY	SESSION
	0.00	-8.82

SESSION WILL BE HELD FOR 60 MINUTES
 STN INTERNATIONAL SESSION SUSPENDED AT 13:18:49 ON 01 OCT 2001
 Connection closed by remote host

Trying 3106016892...Open

Welcome to STN International! Enter x:x
 LOGINID:sssptal745sxt
 PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
 SESSION RESUMED IN FILE 'REGISTRY' AT 13:20:28 ON 01 OCT 2001
 FILE 'REGISTRY' ENTERED AT 13:20:28 ON 01 OCT 2001
 COPYRIGHT (C) 2001 American Chemical Society (ACS)

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
FULL ESTIMATED COST	ENTRY	SESSION
	4.11	81.41
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL

=> d his

(FILE 'HOME' ENTERED AT 12:56:18 ON 01 OCT 2001)

L1 FILE 'REGISTRY' ENTERED AT 12:56:49 ON 01 OCT 2001
L2 STRUCTURE UPLOADED
L3 QUE L1
50 S L1 SAM

FILE 'CAPLUS' ENTERED AT 12:59:32 ON 01 OCT 2001
S L1 AND POLYMER?

L4 FILE 'REGISTRY' ENTERED AT 12:59:40 ON 01 OCT 2001
50 S L1

L5 FILE 'CAPLUS' ENTERED AT 12:59:41 ON 01 OCT 2001
52 S L4
L6 4 S L5 AND POLYMER?
S L1 AND POLY?

L7 FILE 'REGISTRY' ENTERED AT 13:08:41 ON 01 OCT 2001
50 S L1

L8 FILE 'CAPLUS' ENTERED AT 13:08:43 ON 01 OCT 2001
52 S L7
L9 10 S L8 AND POLY?

L10 FILE 'REGISTRY' ENTERED AT 13:15:24 ON 01 OCT 2001
0 S POLYBIPHENYLANILINE

L11 FILE 'CAPLUS' ENTERED AT 13:15:58 ON 01 OCT 2001
1 S POLYBIPHENYLANILINE

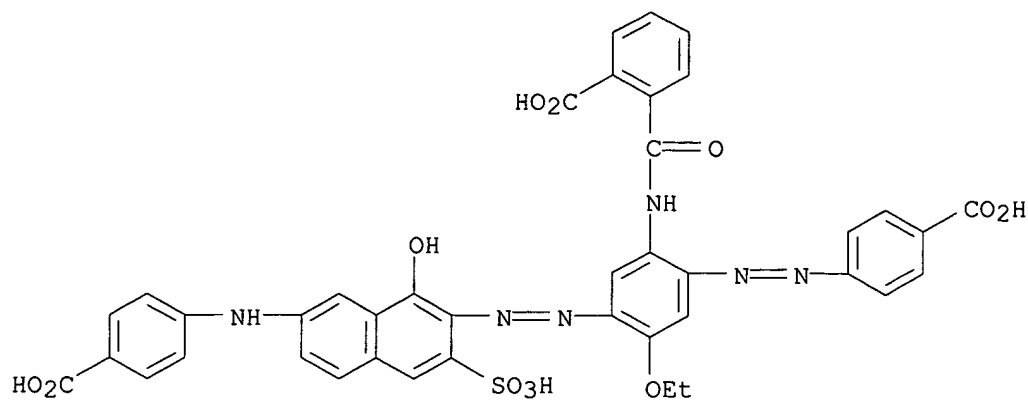
L12 FILE 'CAPLUS' ENTERED AT 13:17:37 ON 01 OCT 2001
0 S POLYMER? (5A) BIPHENYLANILINE

L13 FILE 'REGISTRY' ENTERED AT 13:18:15 ON 01 OCT 2001
0 S BIPHENYLANILINE

=> d scan 13 1-10

'1-10' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN Benzoic acid, 2-[[[5-[[7-[(4-carboxyphenyl)amino]-1-hydroxy-3-sulfo-2-naphthalenyl]azo]-2-[(4-carboxyphenyl)azo]-4-ethoxyphenyl]amino]carbonyl]-, triammonium salt (9CI)
MF C40 H30 N6 O12 S . 3 H3 N



● 3 NH₃

The following are valid formats:

Substance information can be displayed by requesting individual fields or predefined formats. The predefined substance formats are: (RN = CAS Registry Number)

REG - RN
 SAM - Index Name, MF, and structure - no RN
 FIDE - All substance data, except sequence data
 IDE - FIDE, but only 50 names
 SQIDE - IDE, plus sequence data
 SQIDE3 - Same as SQIDE, but 3-letter amino acid codes are used
 SQD - Protein sequence data, includes RN
 SQD3 - Same as SQD, but 3-letter amino acid codes are used
 SQN - Protein sequence name information, includes RN

Any CA File format may be combined with any substance format to obtain CA references citing the substance. The substance formats must be cited first. The CA File predefined formats are:

ABS -- Abstract
 APPS -- Application and Priority Information
 BIB -- CA Accession Number, plus Bibliographic Data
 CAN -- CA Accession Number
 CBIB -- CA Accession Number, plus Bibliographic Data (compressed)
 IND -- Index Data
 IPC -- International Patent Classification
 PATS -- PI, SO
 STD -- BIB, IPC, and NCL

IABS --ABS, indented, with text labels
 IBIB -- BIB, indented, with text labels
 ISTD -- STD format, indented

OBIB ----- AN, plus Bibliographic Data (original)
 OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations
 SIBIB ----- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.

The MAX format is the same as ALL.
The IALL format is the same as ALL with BIB ABS and IND indented,
with text labels.

For additional information, please consult the following help
messages:

HELP DFIELDS -- To see a complete list of individual display fields.
HELP FORMATS -- To see detailed descriptions of the predefined formats.
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> d his

(FILE 'HOME' ENTERED AT 12:56:18 ON 01 OCT 2001)

FILE 'REGISTRY' ENTERED AT 12:56:49 ON 01 OCT 2001
L1 STRUCTURE UPLOADED
L2 QUE L1
L3 50 S L1 SAM

FILE 'CAPLUS' ENTERED AT 12:59:32 ON 01 OCT 2001
S L1 AND POLYMER?

FILE 'REGISTRY' ENTERED AT 12:59:40 ON 01 OCT 2001
L4 50 S L1

FILE 'CAPLUS' ENTERED AT 12:59:41 ON 01 OCT 2001
L5 52 S L4
L6 4 S L5 AND POLYMER?
S L1 AND POLY?

FILE 'REGISTRY' ENTERED AT 13:08:41 ON 01 OCT 2001
L7 50 S L1

FILE 'CAPLUS' ENTERED AT 13:08:43 ON 01 OCT 2001
L8 52 S L7
L9 10 S L8 AND POLY?

FILE 'REGISTRY' ENTERED AT 13:15:24 ON 01 OCT 2001
L10 0 S POLYBIPHENYLANILINE

FILE 'CAPLUS' ENTERED AT 13:15:58 ON 01 OCT 2001
L11 1 S POLYBIPHENYLANILINE

FILE 'CAPLUS' ENTERED AT 13:17:37 ON 01 OCT 2001
L12 0 S POLYMER? (5A) BIPHENYLANILINE

FILE 'REGISTRY' ENTERED AT 13:18:15 ON 01 OCT 2001
L13 0 S BIPHENYLANILINE

=> d 13 1

L13 HAS NO ANSWERS
L13 0 SEA FILE=REGISTRY ABB=ON PLU=ON BIPHENYLANILINE

=> d his

(FILE 'HOME' ENTERED AT 12:56:18 ON 01 OCT 2001)

FILE 'REGISTRY' ENTERED AT 12:56:49 ON 01 OCT 2001
L1 STRUCTURE UPLOADED
L2 QUE L1

L3 50 S L1 SAM

FILE 'CAPLUS' ENTERED AT 12:59:32 ON 01 OCT 2001
S L1 AND POLYMER?

L4 FILE 'REGISTRY' ENTERED AT 12:59:40 ON 01 OCT 2001
50 S L1

L5 FILE 'CAPLUS' ENTERED AT 12:59:41 ON 01 OCT 2001
52 S L4
L6 4 S L5 AND POLYMER?
S L1 AND POLY?

L7 FILE 'REGISTRY' ENTERED AT 13:08:41 ON 01 OCT 2001
50 S L1

L8 FILE 'CAPLUS' ENTERED AT 13:08:43 ON 01 OCT 2001
52 S L7
L9 10 S L8 AND POLY?

L10 FILE 'REGISTRY' ENTERED AT 13:15:24 ON 01 OCT 2001
0 S POLYBIPHENYLANILINE

L11 FILE 'CAPLUS' ENTERED AT 13:15:58 ON 01 OCT 2001
1 S POLYBIPHENYLANILINE

L12 FILE 'CAPLUS' ENTERED AT 13:17:37 ON 01 OCT 2001
0 S POLYMER? (5A) BIPHENYLANILINE

L13 FILE 'REGISTRY' ENTERED AT 13:18:15 ON 01 OCT 2001
0 S BIPHENYLANILINE

=> file registry

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
FULL ESTIMATED COST	ENTRY	SESSION
	4.42	81.72
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY	SESSION
	0.00	-8.82

FILE 'REGISTRY' ENTERED AT 13:21:06 ON 01 OCT 2001
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2001 American Chemical Society (ACS)

STRUCTURE FILE UPDATES: 30 SEP 2001 HIGHEST RN 359625-43-7
DICTIONARY FILE UPDATES: 30 SEP 2001 HIGHEST RN 359625-43-7

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Structure search limits have been increased. See HELP SLIMIT
for details.

=> d his

(FILE 'HOME' ENTERED AT 12:56:18 ON 01 OCT 2001)

L1 FILE 'REGISTRY' ENTERED AT 12:56:49 ON 01 OCT 2001
STRUCTURE UPLOADED
L2 QUE L1

L3

50 S L1 SAM

FILE 'CAPLUS' ENTERED AT 12:59:32 ON 01 OCT 2001
S L1 AND POLYMER?

L4

FILE 'REGISTRY' ENTERED AT 12:59:40 ON 01 OCT 2001
50 S L1

L5

L6

FILE 'CAPLUS' ENTERED AT 12:59:41 ON 01 OCT 2001
52 S L4
4 S L5 AND POLYMER?
S L1 AND POLY?

L7

FILE 'REGISTRY' ENTERED AT 13:08:41 ON 01 OCT 2001
50 S L1

L8

L9

FILE 'CAPLUS' ENTERED AT 13:08:43 ON 01 OCT 2001
52 S L7
10 S L8 AND POLY?

L10

FILE 'REGISTRY' ENTERED AT 13:15:24 ON 01 OCT 2001
0 S POLYBIPHENYLANILINE

L11

FILE 'CAPLUS' ENTERED AT 13:15:58 ON 01 OCT 2001
1 S POLYBIPHENYLANILINE

L12

FILE 'CAPLUS' ENTERED AT 13:17:37 ON 01 OCT 2001
0 S POLYMER? (5A) BIPHENYLANILINE

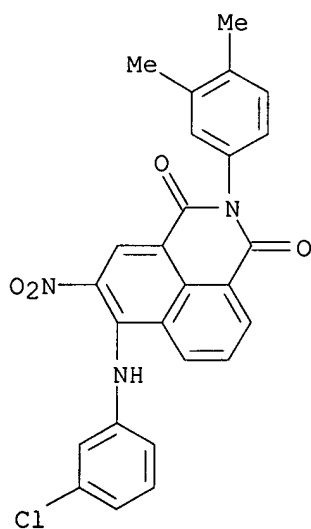
L13

FILE 'REGISTRY' ENTERED AT 13:18:15 ON 01 OCT 2001
0 S BIPHENYLANILINE

FILE 'REGISTRY' ENTERED AT 13:21:06 ON 01 OCT 2001

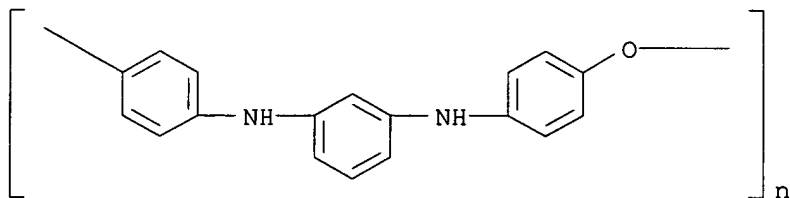
=> d 13 1

L3 ANSWER 1 OF 50 REGISTRY COPYRIGHT 2001 ACS
RN 358371-49-0 REGISTRY
CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 6-[(3-chlorophenyl)amino]-2-(3,4-dimethylphenyl)-5-nitro- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C26 H18 Cl N3 O4
SR Chemical Library



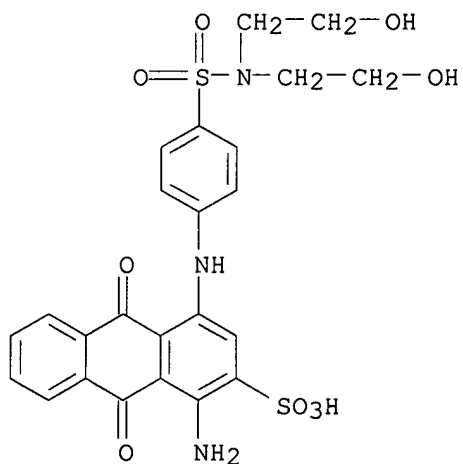
=> d scan 13

L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN Poly(oxy-1,4-phenyleneimino-1,3-phenyleneimino-1,4-phenylene) (9CI)
MF (C18 H14 N2 O)_n
CI PMS



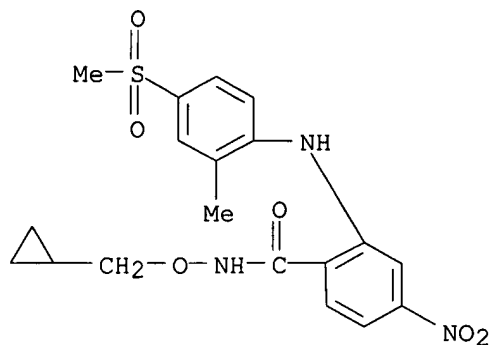
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 2-Anthracenesulfonic acid, 1-amino-4-[[4-[[bis(2-hydroxyethyl)amino)sulfonyl]phenyl]amino]-9,10-dihydro-9,10-dioxo-, monoammonium salt (9CI)
MF C24 H23 N3 O9 S2 . H3 N
CI COM



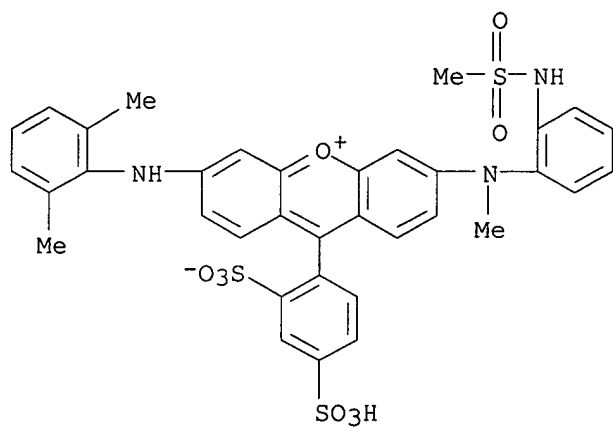
● NH₃

L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN Benzamide, N-(cyclopropylmethoxy)-2-[[2-methyl-4-(methylsulfonyl)phenyl]amino]-4-nitro- (9CI)
MF C19 H21 N3 O6 S



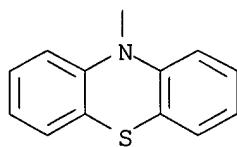
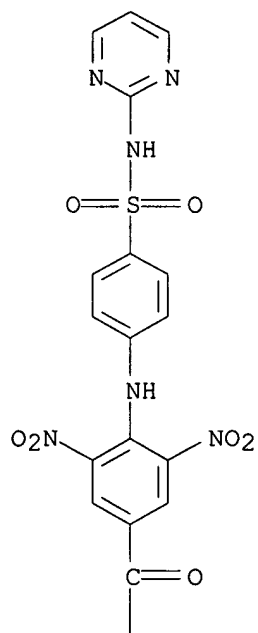
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):3

L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Xanthylum, 3-[(2,6-dimethylphenyl)amino]-9-(2,4-disulfophenyl)-6-[[2-
 [(methylsulfonyl)amino]phenyl]amino]-, inner salt, monosodium salt (9CI)
 MF C35 H31 N3 O9 S3 . Na

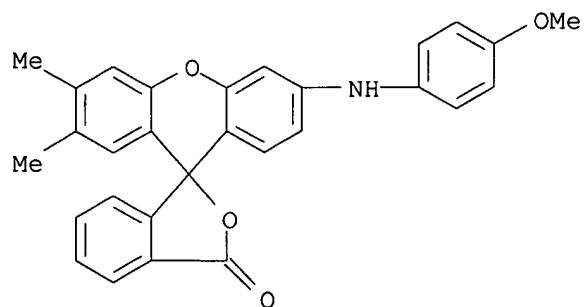


● Na

L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 10H-Phenothiazine,
 10-[3,5-dinitro-4-[[4-[(2-pyrimidinylamino)sulfonyl]phe
 nyl]amino]benzoyl]- (9CI)
 MF C29 H19 N7 O7 S2



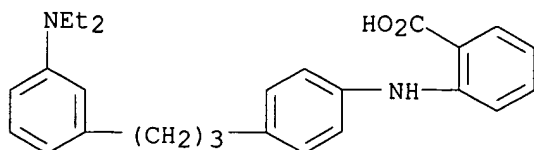
L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one, 6'-[(4-methoxyphenyl)amino]-2',3'-dimethyl- (9CI)
 MF C29 H23 N O4



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

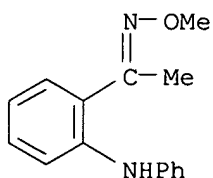
L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS

IN Benzoic acid, 2-[[4-[3-[3-(diethylamino)phenyl]propyl]phenyl]amino]-
(9CI)
MF C26 H30 N2 O2

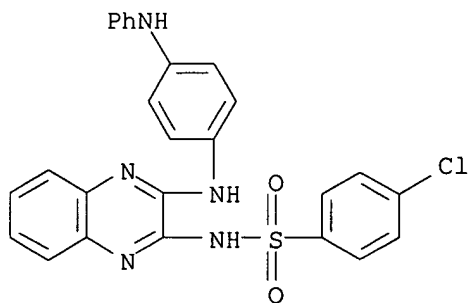


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

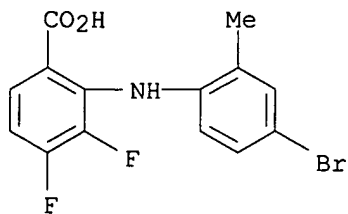
L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN Ethanone, 1-[2-(phenylamino)phenyl]-, O-methyloxime (9CI)
MF C15 H16 N2 O



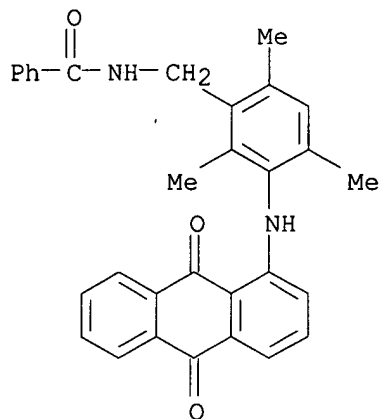
L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN Benzenesulfonamide, 4-chloro-N-[3-[[4-(phenylamino)phenyl]amino]-2-quinoxaliny]- (9CI)
MF C26 H20 Cl N5 O2 S



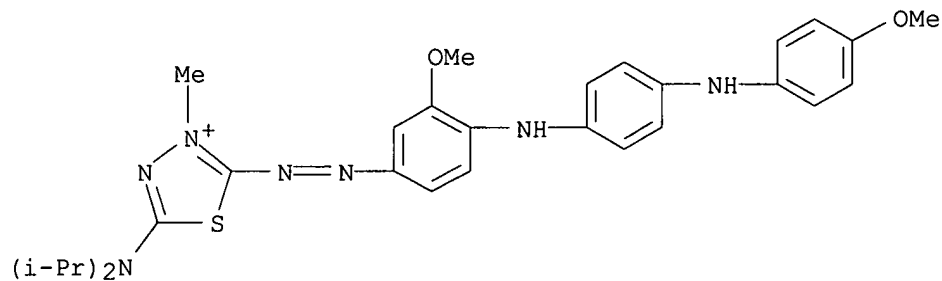
L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN Benzoic acid, 2-[(4-bromo-2-methylphenyl)amino]-3,4-difluoro- (9CI)
MF C14 H10 Br F2 N O2



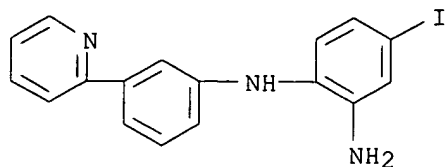
L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Benzamide, N-[[3-[(9,10-dihydro-9,10-dioxo-1-anthracenyl)amino]-2,4,6-trimethylphenyl]methyl]- (9CI)
 MF C31 H26 N2 O3



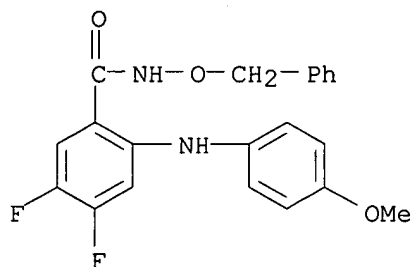
L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 1,3,4-Thiadiazolium, 5-[bis(1-methylethyl)amino]-2-[[3-methoxy-4-[[4-[(4-methoxyphenyl)amino]phenyl]amino]phenyl]azo]-3-methyl- (9CI)
 MF C29 H36 N7 O2 S
 CI COM



L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 1,2-Benzenediamine, 4-iodo-N1-[3-(2-pyridinyl)phenyl]- (9CI)
 MF C17 H14 I N3

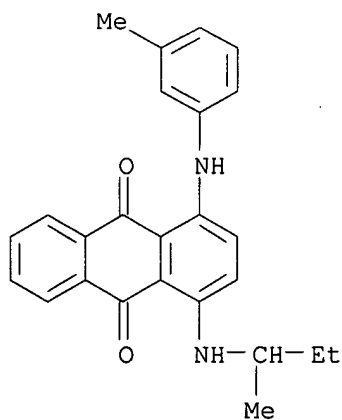


L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Benamide, 4,5-difluoro-2-[(4-methoxyphenyl)amino]-N-(phenylmethoxy)-
 (9CI)
 MF C21 H18 F2 N2 O3

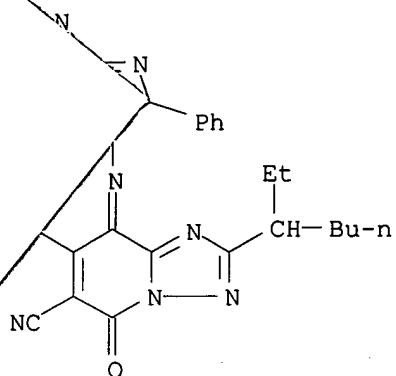


L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN [1,2,4]Triazolo[1,5-a]pyridine-6-carbonitrile, 8-[[2-(dibutylamino)-4-phenyl-5-thiazolyl]imino]-2-(1-ethylpentyl)-5,8-dihydro-7-methyl-5-oxo-,
 mixt. with 1-[(3-methylphenyl)amino]-4-[(1-methylpropyl)amino]-9,10-anthracenedione (9CI)
 MF C32 H41 N7 O S . C25 H24 N2 O2
 CI MXS

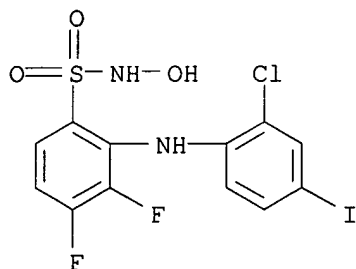
CM 1



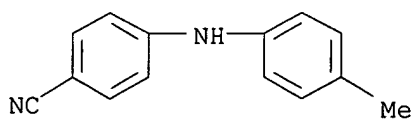
CM 2



L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Benzenesulfonamide, 2-[(2-chloro-4-iodophenyl)amino]-3,4-difluoro-N-
 hydroxy- (9CI)
 MF C12 H8 Cl F2 I N2 O3 S



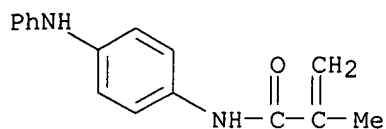
L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Benzonitrile, 4-[(4-methylphenyl)amino]- (9CI)
 MF C14 H12 N2



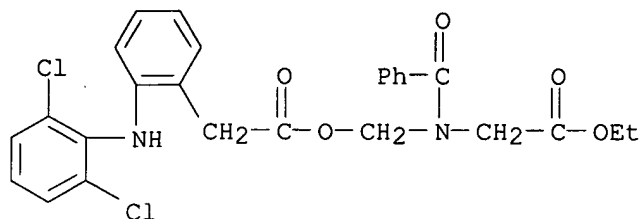
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 2-Propenamide, 2-methyl-N-[4-(phenylamino)phenyl]-, homopolymer (9CI)
 MF (C16 H16 N2 O)x
 CI PMS

CM 1

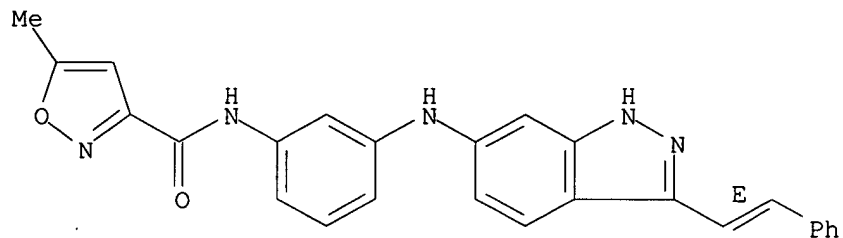


L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Benzeneacetic acid, 2-[(2,6-dichlorophenyl)amino]-, [benzoyl(2-ethoxy-2-oxoethyl)amino]methyl ester (9CI)
 MF C26 H24 Cl2 N2 O5

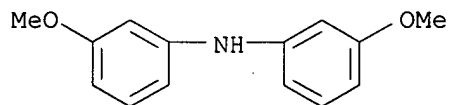


L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 3-Isoxazolecarboxamide, 5-methyl-N-[3-[[3-[(1E)-2-phenylethenyl]-1H-indazol-6-yl]amino]phenyl]- (9CI)
 MF C26 H21 N5 O2

Double bond geometry as shown.



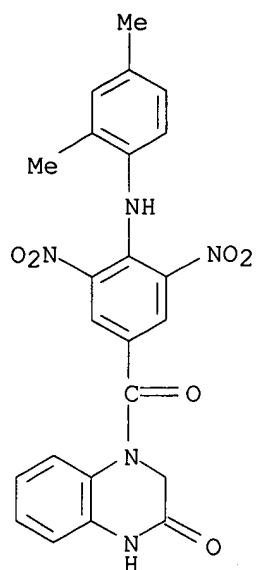
L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Benzenamine, 3-methoxy-N-(3-methoxyphenyl)-, lithium salt (9CI)
 MF C14 H15 N O2 . Li



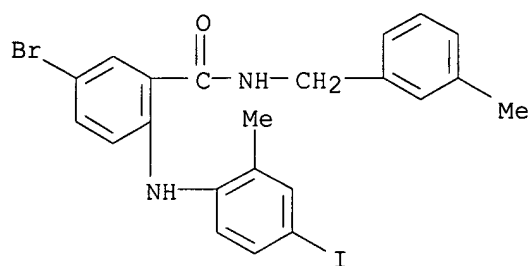
● Li

L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 2(1H)-Quinoxalinone,
 4-[4-[(2,4-dimethylphenyl)amino]-3,5-dinitrobenzoyl]-

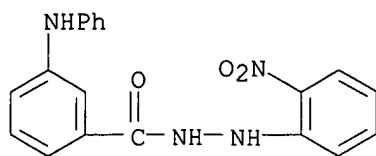
3,4-dihydro- (9CI)
 MF C23 H19 N5 O6



L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Benzamide, 5-bromo-2-[(4-iodo-2-methylphenyl)amino]-N-[(3-methylphenyl)methyl]- (9CI)
 MF C22 H20 Br I N2 O

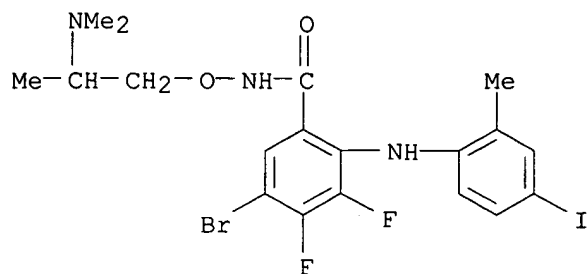


L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Benzoic acid, 3-(phenylamino)-, 2-(2-nitrophenyl)hydrazide (9CI)
 MF C19 H16 N4 O3



L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Benzamide,
 5-bromo-N-[2-(dimethylamino)propoxy]-3,4-difluoro-2-[(4-iodo-2-

methoxyphenyl)amino]- (9CI)
 MF C19 H21 Br F2 I N3 O2



L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS

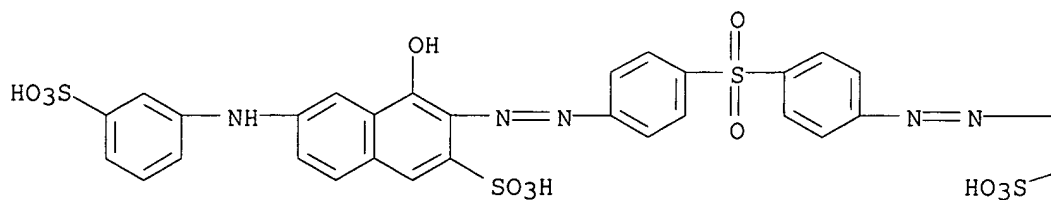
IN Benzoic acid,

2-hydroxy-4-[[5-hydroxy-6-[[4-[[4-[[1-hydroxy-3-sulfo-7-(3-

sulfophenyl)amino]-2-naphthalenyl]azo]phenyl]sulfonyl]phenyl]azo]-7-sulfo-
 2-naphthalenyl]amino]-, tetraammonium salt (9CI)

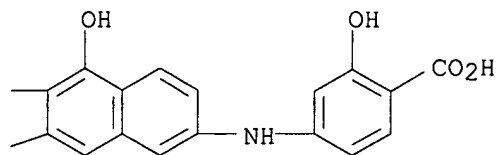
MF C45 H32 N6 O16 S4 . 4 H3 N

PAGE 1-A



• 4 NH3

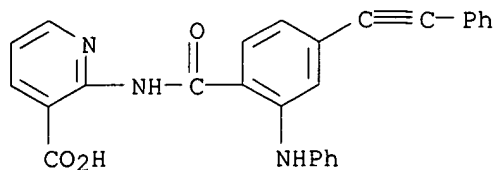
PAGE 1-B



L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS

IN 3-Pyridinecarboxylic acid, 2-[[2-(phenylamino)-4-(phenylethynyl)benzoyl]amino]- (9CI)

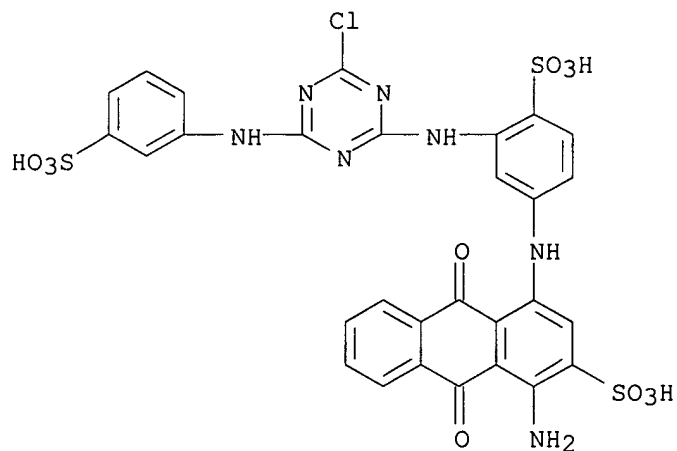
MF C27 H19 N3 O3



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 2-Anthracenesulfonic acid, 1-amino-4-[[3-[[4-chloro-6-[(3-sulfophenyl)amino]-1,3,5-triazin-2-yl]amino]-4-sulfophenyl]amino]-9,10-dihydro-9,10-dioxo-, lithium sodium salt (9CI)
 MF C29 H20 Cl N7 O11 S3 . x Li . x Na

PAGE 1-A

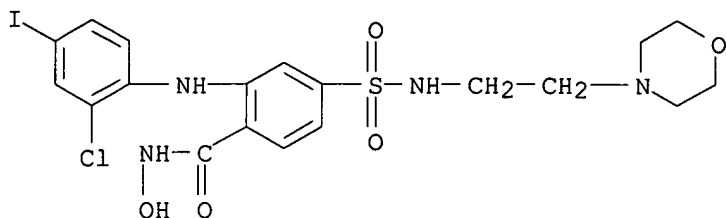


● x Li

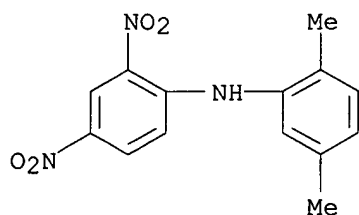
PAGE 2-A

● x Na

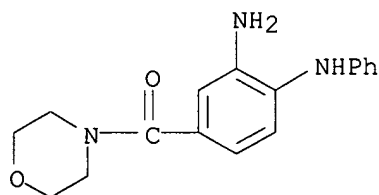
L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Benzamide, 2-[(2-chloro-4-iodophenyl)amino]-N-hydroxy-4-[[[2-(4-morpholinyl)ethyl]amino]sulfonyl]- (9CI)
 MF C19 H22 Cl I N4 O5 S



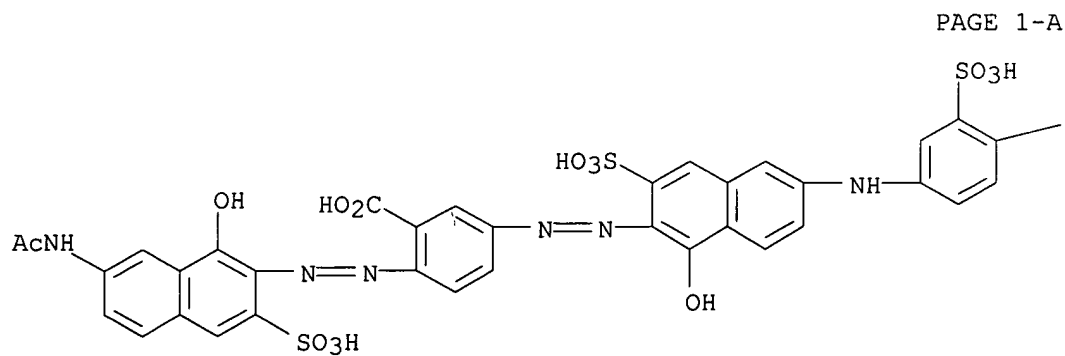
L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Benzenamine, N-(2,5-dimethylphenyl)-2,4-dinitro- (9CI)
 MF C14 H13 N3 O4



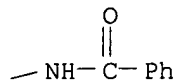
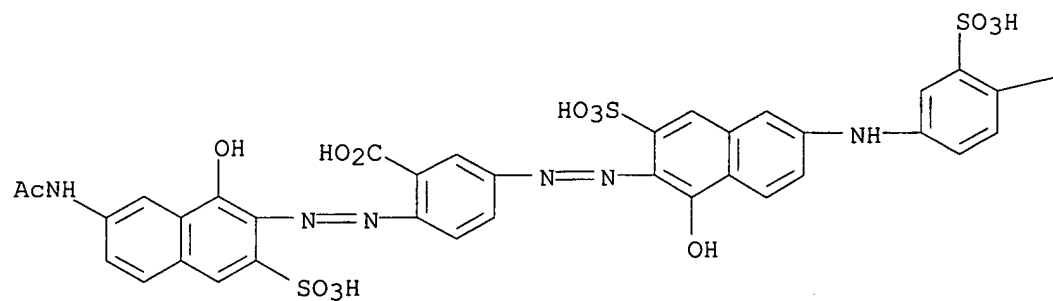
L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Morpholine, 4-[3-amino-4-(phenylamino)benzoyl]- (9CI)
 MF C17 H19 N3 O2



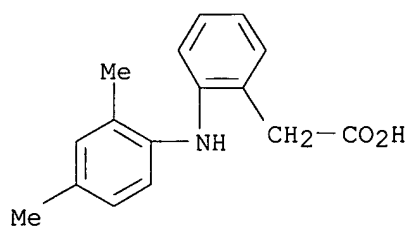
L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Benzoic acid,
 2-[[7-(acetamino)-1-hydroxy-3-sulfo-2-naphthalenyl]azo]-5-
 [[6-[[4-(benzoylamino)-3-sulfo-2-naphthalenyl]azo]-1-hydroxy-3-sulfo-2-
 naphthalenyl]azo]- (9CI)
 MF C42 H31 N7 O15 S3



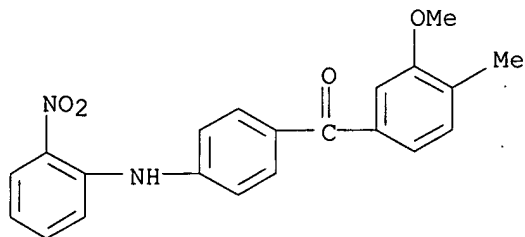
PAGE 1-A



L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Benzeneacetic acid, 2-[(2,4-dimethylphenyl)amino]- (9CI)
 MF C16 H17 N O2

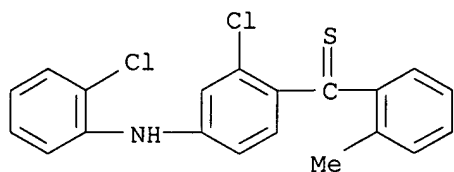


L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Methanone, (3-methoxy-4-methylphenyl)[4-[(2-nitrophenyl)amino]phenyl]- (9CI)
 MF C21 H18 N2 O4

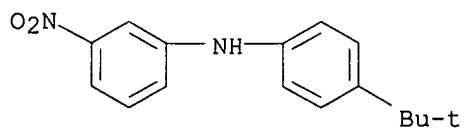


L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Methanethione,
 [2-chloro-4-[(2-chlorophenyl)amino]phenyl](2-methylphenyl)-

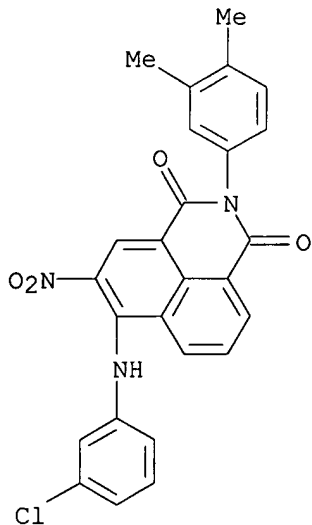
(9CI)
MF C20 H15 Cl2 N S



L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN Benzenamine, N-[4-(1,1-dimethylethyl)phenyl]-3-nitro- (9CI)
MF C16 H18 N2 O2

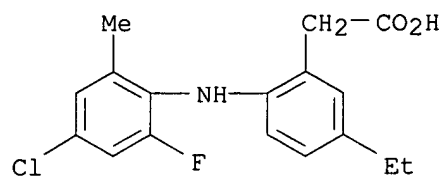


L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 6-[(3-chlorophenyl)amino]-2-(3,4-dimethylphenyl)-5-nitro- (9CI)
MF C26 H18 Cl N3 O4



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN Benzeneacetic acid, 2-[(4-chloro-2-fluoro-6-methylphenyl)amino]-5-ethyl- (9CI)
MF C17 H17 Cl F N O2



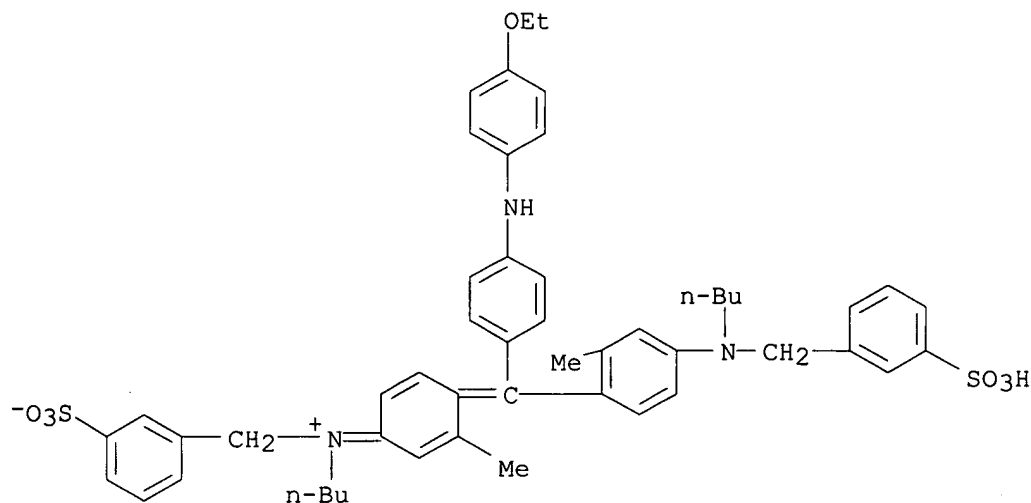
L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS

IN Benzenemethanaminium,

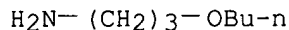
N-butyl-N-[4-[[4-(3-sulfophenyl)methyl]amino]-2-methylphenyl][4-[(4-ethoxyphenyl)amino]phenyl]methylene]-3-methyl-2,5-cyclohexadien-1-ylidene]-3-sulfo-, inner salt, compd. with 3-butoxy-1-propanamine (1:1) (9CI)

MF C51 H57 N3 O7 S2 . C7 H17 N O

CM 1



CM 2

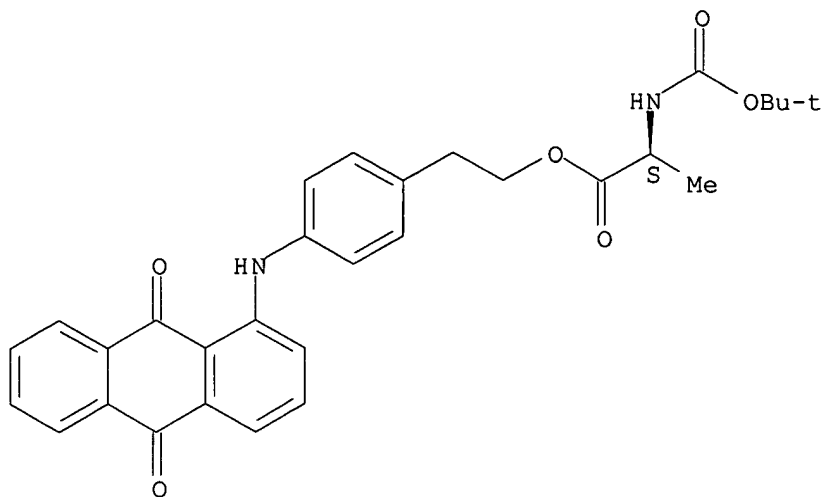


L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS

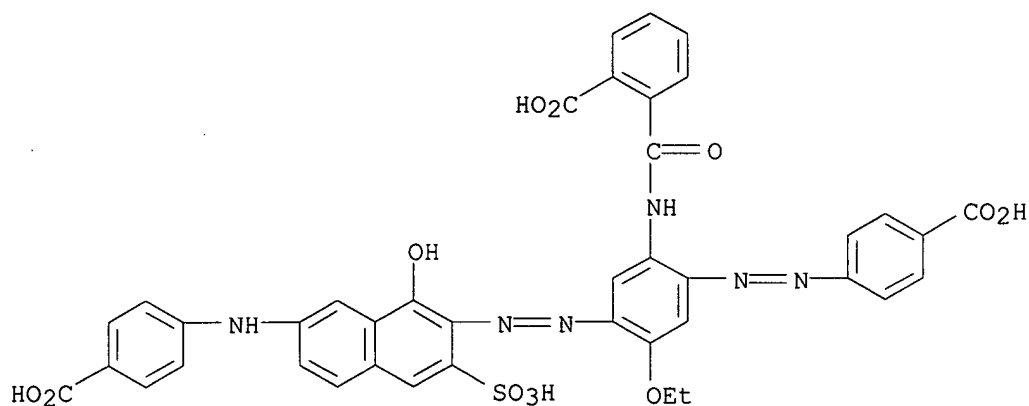
IN L-Alanine, N-[(1,1-dimethylethoxy)carbonyl]-, 2-[4-[(9,10-dihydro-9,10-dioxo-1-anthracenyl)amino]phenyl]ethyl ester (9CI)

MF C30 H30 N2 O6

Absolute stereochemistry.



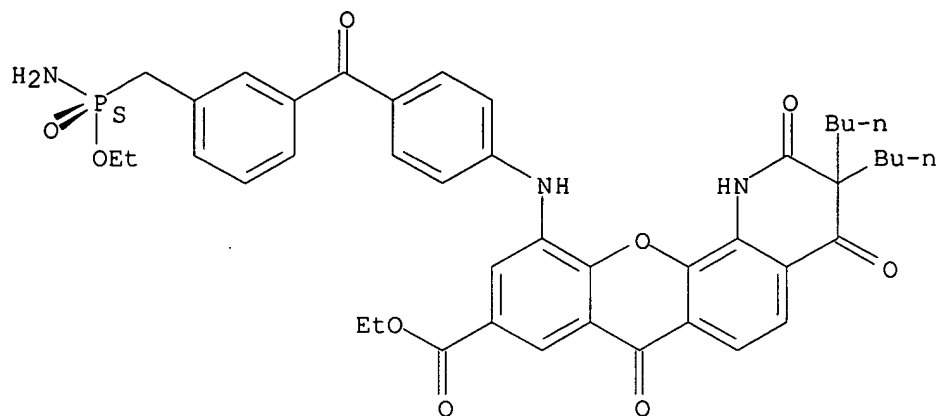
L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Benzoic acid, 2-[[[5-[[7-[(4-carboxyphenyl)amino]-1-hydroxy-3-sulfo-2-naphthalenyl]azo]-2-[(4-carboxyphenyl)azo]-4-ethoxyphenyl]amino]carbonyl]-, triammonium salt (9CI)
 MF C40 H30 N6 O12 S . 3 H3 N



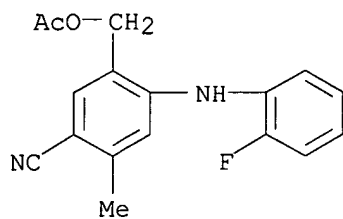
● 3 NH₃

L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 1H-[1]Benzopyrano[3,2-h]quinoline-9-carboxylic acid, 11-[[[4-[3-[[[(S)-aminoethoxyphosphinyl]methyl]benzoyl]phenyl]amino]-3,3-dibutyl-2,3,4,7-tetrahydro-2,4,7-trioxo-, ethyl ester (9CI)
 MF C43 H46 N3 O9 P

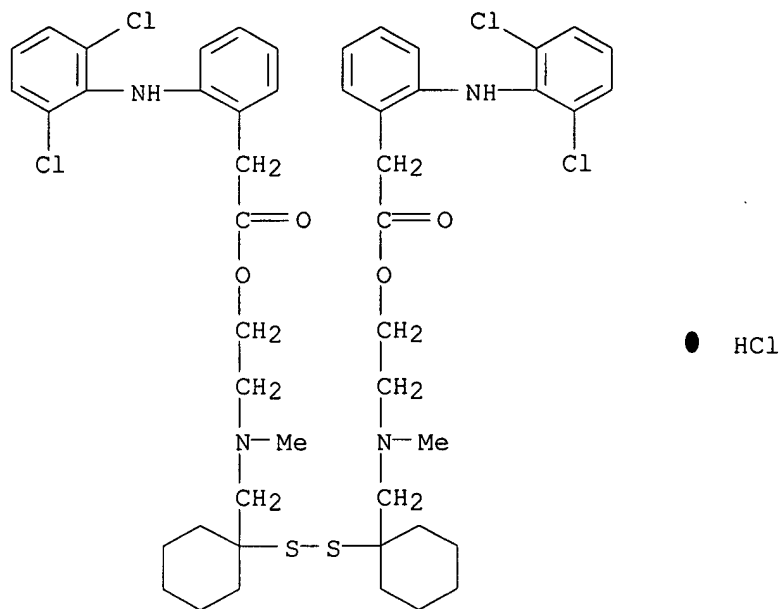
Absolute stereochemistry.



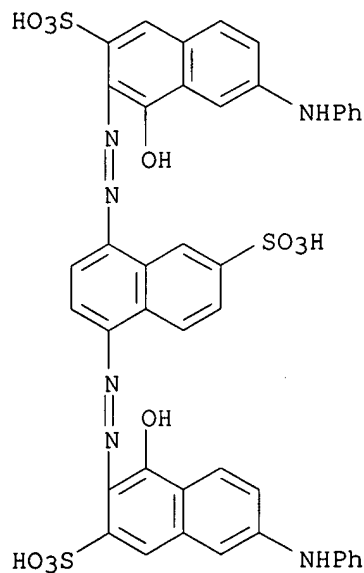
L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Benzonitrile, 5-[(acetyloxy)methyl]-4-[(2-fluorophenyl)amino]-2-methyl-
 (9CI)
 MF C17 H15 F N2 O2



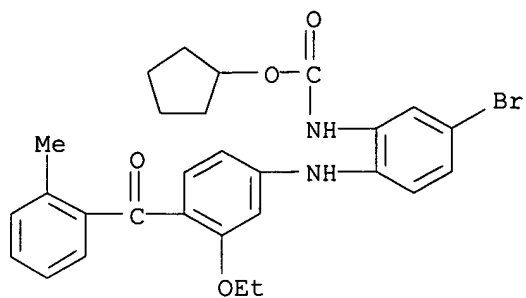
L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Benzeneacetic acid, 2-[(2,6-dichlorophenyl)amino]-,
 dithiobis[cyclohexylidenemethylene(methylimino)-2,1-ethanediyl] ester,
 monohydrochloride (9CI)
 MF C48 H58 Cl4 N4 O4 S2 . Cl H



L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN 2-Naphthalenesulfonic acid, 5-[[1-hydroxy-6-(phenylamino)-3-sulfo-2-naphthalenyl]azo]-8-[[1-hydroxy-7-(phenylamino)-3-sulfo-2-naphthalenyl]azo]- (9CI)
 MF C42 H30 N6 O11 S3



L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Carbamic acid,
 [5-bromo-2-[[3-ethoxy-4-(2-methylbenzoyl)phenyl]amino]phenyl]-, cyclopentyl ester (9CI)
 MF C28 H29 Br N2 O4



L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS

IN L-Lysine, N-[4-[(4-amino-9,10-dihydro-9,10-dioxo-1-

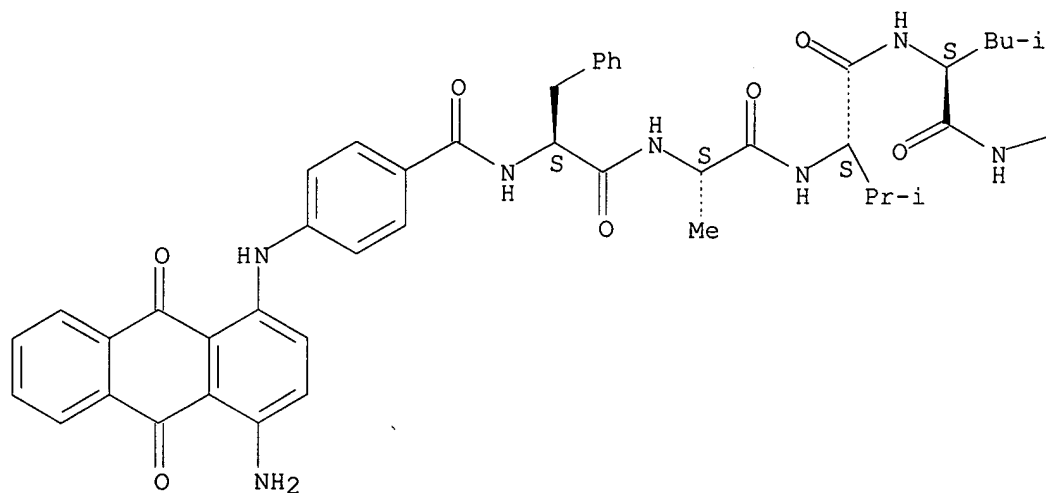
anthracenyl)amino]benzoyl]-L-phenylalanyl-L-alanyl-L-valyl-L-leucylglycyl-
L-lysyl-L-lysyl-L-lysyl-L-lysyl- (9CI)

SQL 10

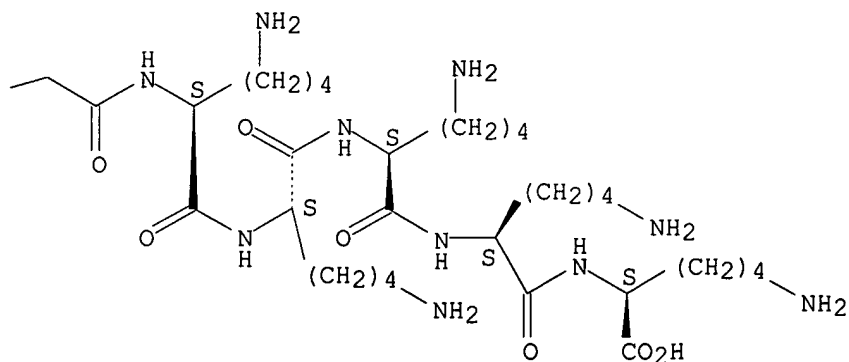
MF C76 H111 N17 O14

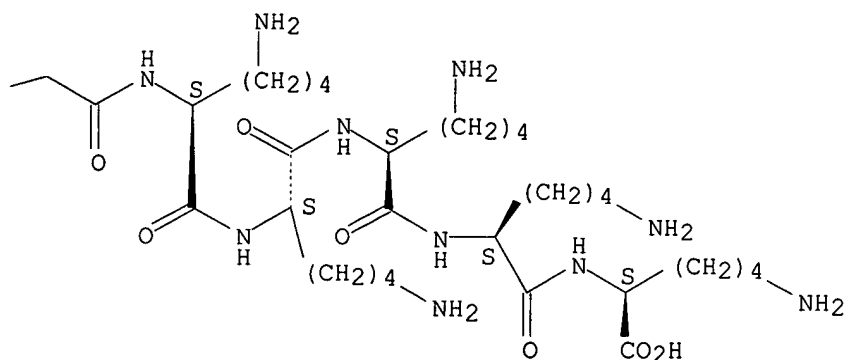
Absolute stereochemistry.

PAGE 1-A



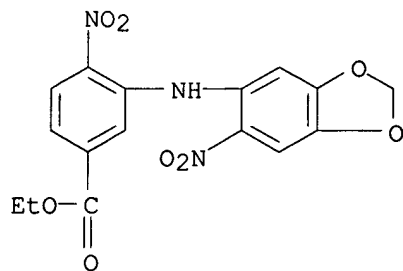
PAGE 1-B





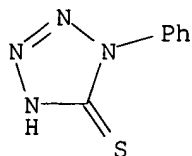
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Benzoic acid, 4-nitro-3-[(6-nitro-1,3-benzodioxol-5-yl)amino]-, ethyl
 ester (9CI)
 MF C16 H13 N3 O8



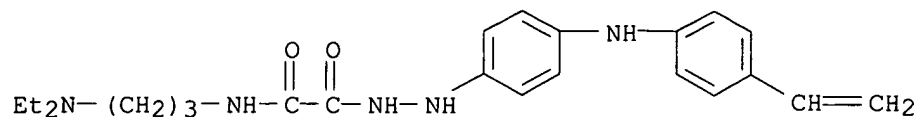
L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Acetic acid, [[3-(diethylamino)propyl]amino]oxo-, 2-[4-[(4-
 ethenylphenyl)amino]phenyl]hydrazide, telomer with
 1,2-dihydro-1-phenyl-5H-
 tetrazole-5-thione (9CI)
 MF (C23 H31 N5 O2)x . C7 H6 N4 S

CM 1



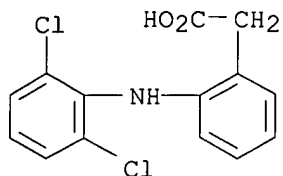
CM 2

CM 3



L3 50 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN Benzeneacetic acid, 2-[(2,6-dichlorophenyl)amino]-, compd. with
N-butyl-1-butanamine (1:1) (9CI)
MF C14 H11 Cl2 N O2 . C8 H19 N

CM 1



CM 2

n-Bu-NH-Bu-n

ALL ANSWERS HAVE BEEN SCANNED

=> log h

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	3.36	85.08
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-8.82

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 13:24:56 ON 01 OCT 2001
Connection closed by remote host

Trying 3106016892...Open

Welcome to STN International! Enter x:x

LOGINID:sssptal745sxt

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *

SESSION RESUMED IN FILE 'REGISTRY' AT 13:27:57 ON 01 OCT 2001

FILE 'REGISTRY' ENTERED AT 13:27:57 ON 01 OCT 2001

COPYRIGHT (C) 2001 American Chemical Society (ACS)

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
----------------------	------------	-------

FULL ESTIMATED COST	ENTRY 3.36	SESSION 85.08
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY 0.00	SESSION -8.82

=> file registry

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
FULL ESTIMATED COST	ENTRY 3.36	SESSION 85.08
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY 0.00	SESSION -8.82

FILE 'REGISTRY' ENTERED AT 13:28:03 ON 01 OCT 2001
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
 COPYRIGHT (C) 2001 American Chemical Society (ACS)

STRUCTURE FILE UPDATES: 30 SEP 2001 HIGHEST RN 359625-43-7
 DICTIONARY FILE UPDATES: 30 SEP 2001 HIGHEST RN 359625-43-7

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when
 conducting SmartSELECT searches.

Structure search limits have been increased. See HELP SLIMIT
 for details.

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=>
 Uploading c:\stnexp4\queries\phenyl3.str

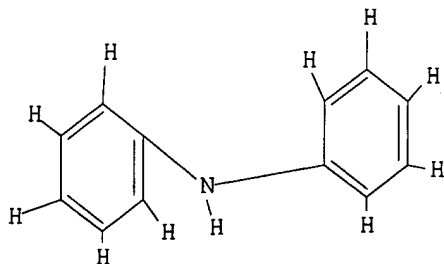
L14 STRUCTURE UPLOADED

=> que L14

L15 QUE L14

=> d l14

L14 HAS NO ANSWERS
 L14 STR



Structure attributes must be viewed using STN Express query preparation.

=> s dl14 sam

SAMPLE IS IGNORED AS A SCOPE FOR THIS SEARCH
L16 0 DL14

=> s l14 sam

SAMPLE SEARCH INITIATED 13:29:01 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 9510 TO ITERATE

10.5% PROCESSED 1000 ITERATIONS 3 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 184366 TO 196034
PROJECTED ANSWERS: 250 TO 890

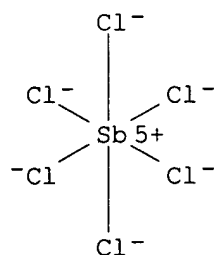
L17 3 SEA SSS SAM L14

=> d scan

L17 3 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN Antimonate(1-), hexachloro-, (OC-6-11)-, salt with N-phenylbenzenamine
(1:1) (9CI)
MF C12 H11 N . Cl6 Sb
CM 1

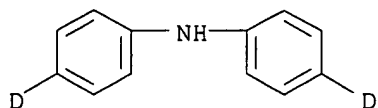
Ph-NH-Ph

CM 2



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L17 3 ANSWERS REGISTRY COPYRIGHT 2001 ACS
IN Benzen-4-d-amine, N-(phenyl-4-d)- (9CI)
MF C12 H9 D2 N



L17 3 ANSWERS REGISTRY COPYRIGHT 2001 ACS
 IN Benzenamine, N-phenyl-, polymer with benzene and 1,1'-oxybis[benzene]
 (9CI)
 MF (C12 H11 N . C12 H10 O . C6 H6)x
 CI PMS
 CM 1

Ph-NH-Ph

CM 2

Ph-O-Ph

CM 3



ALL ANSWERS HAVE BEEN SCANNED

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	4.73	89.81
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-8.82

FILE 'CAPLUS' ENTERED AT 13:29:53 ON 01 OCT 2001
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
 COPYRIGHT (C) 2001 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications.

FILE COVERS 1947 - 1 Oct 2001 VOL 135 ISS 15

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

CAPLUS now provides online access to patents and literature covered in CA from 1947 to the present. On April 22, 2001, bibliographic information and abstracts were added for over 2.2 million references published in CA from 1947 to 1966.

The CA Lexicon is now available in the Controlled Term (/CT) field. Enter HELP LEXICON for full details.

Attention, the CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

=> d his

(FILE 'HOME' ENTERED AT 12:56:18 ON 01 OCT 2001)

FILE 'REGISTRY' ENTERED AT 12:56:49 ON 01 OCT 2001

L1 STRUCTURE UPLOADED
L2 QUE L1
L3 50 S L1 SAM

FILE 'CAPLUS' ENTERED AT 12:59:32 ON 01 OCT 2001
S L1 AND POLYMER?

FILE 'REGISTRY' ENTERED AT 12:59:40 ON 01 OCT 2001
L4 50 S L1

FILE 'CAPLUS' ENTERED AT 12:59:41 ON 01 OCT 2001
L5 52 S L4
L6 4 S L5 AND POLYMER?
S L1 AND POLY?

FILE 'REGISTRY' ENTERED AT 13:08:41 ON 01 OCT 2001
L7 50 S L1

FILE 'CAPLUS' ENTERED AT 13:08:43 ON 01 OCT 2001
L8 52 S L7
L9 10 S L8 AND POLY?

FILE 'REGISTRY' ENTERED AT 13:15:24 ON 01 OCT 2001
L10 0 S POLYBIPHENYLANILINE

FILE 'CAPLUS' ENTERED AT 13:15:58 ON 01 OCT 2001
L11 1 S POLYBIPHENYLANILINE

FILE 'CAPLUS' ENTERED AT 13:17:37 ON 01 OCT 2001
L12 0 S POLYMER? (5A) BIPHENYLANILINE

FILE 'REGISTRY' ENTERED AT 13:18:15 ON 01 OCT 2001
L13 0 S BIPHENYLANILINE

FILE 'REGISTRY' ENTERED AT 13:21:06 ON 01 OCT 2001

FILE 'REGISTRY' ENTERED AT 13:28:03 ON 01 OCT 2001

L14 STRUCTURE UPLOADED
L15 QUE L14
L16 0 S DL14 SAM
L17 3 S L14 SAM

FILE 'CAPLUS' ENTERED AT 13:29:53 ON 01 OCT 2001

=> s l14 and polymer?

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

SAMPLE SEARCH INITIATED 13:30:09 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 9510 TO ITERATE

10.5% PROCESSED 1000 ITERATIONS 3 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
PROJECTED ITERATIONS: 184366 TO 196034
PROJECTED ANSWERS: 250 TO 890

L18 3 SEA SSS SAM L14

L19 4 L18

1372220 POLYMER?
69521 POLYMD
69521 POLYMD
 (POLYMD)
24767 POLYMG
261007 POLYMN
6153 POLYMNS
261758 POLYMN
 (POLYMN OR POLYMNS)
1423063 POLYMER?
 (POLYMER? OR POLYMD OR POLYMG OR POLYMN)

L20 1 L19 AND POLYMER?

=> d ibib ti abs hitstr

L20 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1985:422206 CAPLUS

DOCUMENT NUMBER: 103:22206

TITLE: **Polymer**-supported di- and triphenylated
 cation radicals and their use as Diels-Alder

catalysts

INVENTOR(S): Bauld, Nathan L.; Bellville, Dennis J.

PATENT ASSIGNEE(S): University of Texas System, USA

SOURCE: U.S., 7 pp.

CODEN: USXXAM

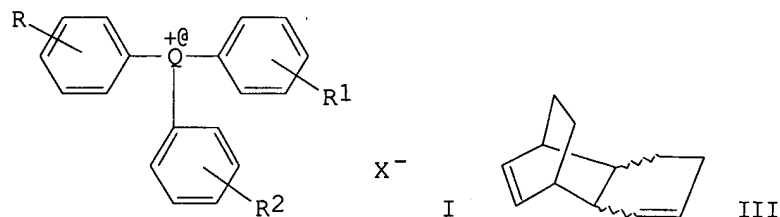
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	US 4503195	A	19850305	US 1981-317019	19811102
TI	Polymer -supported di- and triphenylated cation radicals and their use as Diels-Alder catalysts				
GI					



AB Triphenylated cation radicals I (R = **polymer**, R1, R2 = H, alkyl, OH, halo, haloalkyl, cyano, carbonyl, NO2, cyano; Q = N, P, As, Sb, Bi; X- = anion), covalently bonded to **polymer** supports, were prepd. as Diels-Alder catalysts. Thus, chloromethylated polystyrene was treated with Ph3N-AlCl3, to give a supported Ph3N **polymer**, which was activated by treatment with SbCl5 to give [Ph3N+.bul. SbCl6-]-substituted polystyrene (II). II was as effective as unsupported Ph3NSbCl6 in catalyzing the Diels-Alder cyclodimerization of 1,3-cyclohexadiene, to give 70% product III in a 5:1 endo-exo ratio. The uncatalyzed cyclodimerization of 1,3-cyclohexadiene gave a 4:1 endo-exo ratio of III.

IT **96851-98-8DP**, polystyrene supported
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, for use as Diels-Alder catalysts)

RN 96851-98-8 CAPLUS

CN Antimonate(1-), hexachloro-, (OC-6-11)-, salt with N-phenylbenzenamine (1:1) (9CI) (CA INDEX NAME)

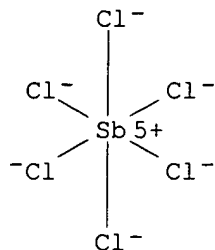
CM 1

CRN 35653-35-1
 CMF C12 H11 N
 CCI RIS
 CDES 8:RI, (1+)

Ph-NH-Ph

CM 2

CRN 17949-89-2
 CMF C16 Sb
 CCI CCS
 CDES 7:OC-6-11



=> d his

```

      (FILE 'HOME' ENTERED AT 12:56:18 ON 01 OCT 2001)

      FILE 'REGISTRY' ENTERED AT 12:56:49 ON 01 OCT 2001
L1          STRUCTURE UPLOADED
L2          QUE L1
L3          50 S L1 SAM

      FILE 'CAPLUS' ENTERED AT 12:59:32 ON 01 OCT 2001
          S L1 AND POLYMER?

      FILE 'REGISTRY' ENTERED AT 12:59:40 ON 01 OCT 2001
L4          50 S L1

      FILE 'CAPLUS' ENTERED AT 12:59:41 ON 01 OCT 2001
L5          52 S L4
L6          4 S L5 AND POLYMER?
          S L1 AND POLY?

      FILE 'REGISTRY' ENTERED AT 13:08:41 ON 01 OCT 2001
L7          50 S L1

      FILE 'CAPLUS' ENTERED AT 13:08:43 ON 01 OCT 2001
L8          52 S L7
L9          10 S L8 AND POLY?

      FILE 'REGISTRY' ENTERED AT 13:15:24 ON 01 OCT 2001
L10         0 S POLYBIPHENYLANILINE

      FILE 'CAPLUS' ENTERED AT 13:15:58 ON 01 OCT 2001
L11         1 S POLYBIPHENYLANILINE

      FILE 'CAPLUS' ENTERED AT 13:17:37 ON 01 OCT 2001
L12         0 S POLYMER? (5A) BIPHENYLANILINE

      FILE 'REGISTRY' ENTERED AT 13:18:15 ON 01 OCT 2001
L13         0 S BIPHENYLANILINE

      FILE 'REGISTRY' ENTERED AT 13:21:06 ON 01 OCT 2001

      FILE 'REGISTRY' ENTERED AT 13:28:03 ON 01 OCT 2001
L14         STRUCTURE UPLOADED
L15         QUE L14
L16         0 S DL14 SAM
L17         3 S L14 SAM

      FILE 'CAPLUS' ENTERED AT 13:29:53 ON 01 OCT 2001
          S L14 AND POLYMER?

      FILE 'REGISTRY' ENTERED AT 13:30:08 ON 01 OCT 2001

```

L18 3 S L14

FILE 'CAPLUS' ENTERED AT 13:30:10 ON 01 OCT 2001
L19 4 S L18
L20 1 S L19 AND POLYMER?

=> log h

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	6.39	96.84
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-0.59	-9.41

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 13:31:08 ON 01 OCT 2001
Connection closed by remote host

Trying 3106016892...Open

Welcome to STN International! Enter x:x

LOGINID:ssspta1745sxt

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 13:32:50 ON 01 OCT 2001
FILE 'CAPLUS' ENTERED AT 13:32:50 ON 01 OCT 2001
COPYRIGHT (C) 2001 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	6.39	96.84
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-0.59	-9.41

=> fil caplus

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	6.39	96.84
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-0.59	-9.41

FILE 'CAPLUS' ENTERED AT 13:32:56 ON 01 OCT 2001
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2001 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications.

FILE COVERS 1947 - 1 Oct 2001 VOL 135 ISS 15
FILE LAST UPDATED: 30 Sep 2001 (20010930/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file supports REGISTRY for direct browsing and searching of

all substance data from the REGISTRY file. Enter HELP FIRST for more information.

CAPLUS now provides online access to patents and literature covered in CA from 1947 to the present. On April 22, 2001, bibliographic information and abstracts were added for over 2.2 million references published in CA from 1947 to 1966.

The CA Lexicon is now available in the Controlled Term (/CT) field. Enter HELP LEXICON for full details.

Attention, the CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.33	97.17
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-9.41

FILE 'CAPLUS' ENTERED AT 13:33:00 ON 01 OCT 2001
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2001 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications.

FILE COVERS 1947 - 1 Oct 2001 VOL 135 ISS 15
FILE LAST UPDATED: 30 Sep 2001 (20010930/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

CAPLUS now provides online access to patents and literature covered in CA from 1947 to the present. On April 22, 2001, bibliographic information and abstracts were added for over 2.2 million references published in CA from 1947 to 1966.

The CA Lexicon is now available in the Controlled Term (/CT) field. Enter HELP LEXICON for full details.

Attention, the CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

=> s phenyl (3A) benzene

206514 PHENYL
307 PHENYLS

206723 PHENYL
 (PHENYL OR PHENYLS)
 1046860 PH
 7772 PHS
 1050429 PH
 (PH OR PHS)
 1198685 PHENYL
 (PHENYL OR PH)
 200799 BENZENE
 12232 BENZENES
 205859 BENZENE
 (BENZENE OR BENZENES)
 L21 1630 PHENYL (3A) BENZENE

=> s l21 and (N (2A) phenyl)

2254232 N
 206514 PHENYL
 307 PHENYLS
 206723 PHENYL
 (PHENYL OR PHENYLS)
 1046860 PH
 7772 PHS
 1050429 PH
 (PH OR PHS)
 1198685 PHENYL
 (PHENYL OR PH)
 32738 N (2A) PHENYL
 L22 92 L21 AND (N (2A) PHENYL)

=> d his

(FILE 'HOME' ENTERED AT 12:56:18 ON 01 OCT 2001)

FILE 'REGISTRY' ENTERED AT 12:56:49 ON 01 OCT 2001
 L1 STRUCTURE UPLOADED
 L2 QUE L1
 L3 50 S L1 SAM

FILE 'CAPLUS' ENTERED AT 12:59:32 ON 01 OCT 2001
 S L1 AND POLYMER?

FILE 'REGISTRY' ENTERED AT 12:59:40 ON 01 OCT 2001
 L4 50 S L1

FILE 'CAPLUS' ENTERED AT 12:59:41 ON 01 OCT 2001
 L5 52 S L4
 L6 4 S L5 AND POLYMER?
 S L1 AND POLY?

FILE 'REGISTRY' ENTERED AT 13:08:41 ON 01 OCT 2001
 L7 50 S L1

FILE 'CAPLUS' ENTERED AT 13:08:43 ON 01 OCT 2001
 L8 52 S L7
 L9 10 S L8 AND POLY?

FILE 'REGISTRY' ENTERED AT 13:15:24 ON 01 OCT 2001
 L10 0 S POLYBIPHENYLANILINE

FILE 'CAPLUS' ENTERED AT 13:15:58 ON 01 OCT 2001
 L11 1 S POLYBIPHENYLANILINE

FILE 'CAPLUS' ENTERED AT 13:17:37 ON 01 OCT 2001
 L12 0 S POLYMER? (5A) BIPHENYLANILINE

L13 FILE 'REGISTRY' ENTERED AT 13:18:15 ON 01 OCT 2001
0 S BIPHENYLANILINE

FILE 'REGISTRY' ENTERED AT 13:21:06 ON 01 OCT 2001

L14 FILE 'REGISTRY' ENTERED AT 13:28:03 ON 01 OCT 2001
STRUCTURE UPLOADED
L15 QUE L14
L16 0 S DL14 SAM
L17 3 S L14 SAM

FILE 'CAPLUS' ENTERED AT 13:29:53 ON 01 OCT 2001
S L14 AND POLYMER?

L18 FILE 'REGISTRY' ENTERED AT 13:30:08 ON 01 OCT 2001
3 S L14

L19 FILE 'CAPLUS' ENTERED AT 13:30:10 ON 01 OCT 2001
4 S L18
L20 1 S L19 AND POLYMER?

FILE 'CAPLUS' ENTERED AT 13:32:56 ON 01 OCT 2001

L21 FILE 'CAPLUS' ENTERED AT 13:33:00 ON 01 OCT 2001
1630 S PHENYL (3A) BENZENE
L22 92 S L21 AND (N (2A) PHENYL)

=> s l22 and ((N (2A) phenyl) (3A) benzene)

2254232 N
206514 PHENYL
307 PHENYLS
206723 PHENYL
(PHENYL OR PHENYLS)
1046860 PH
7772 PHS
1050429 PH
(PH OR PHS)
1198685 PHENYL
(PHENYL OR PH)
200799 BENZENE
12232 BENZENES
205859 BENZENE
(BENZENE OR BENZENES)
71 (N (2A) PHENYL) (3A) BENZENE
L23 54 L22 AND ((N (2A) PHENYL) (3A) BENZENE)

=> s l23 and poly?

L24 2909891 POLY?
18 L23 AND POLY?

=> d 1-18 ibib abs ti hitstr

L24 ANSWER 1 OF 18 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 2000:846530 CAPLUS
DOCUMENT NUMBER: 134:101411
TITLE: Molecular self-assembly of dendrimers, non-covalent
polymers and polypseudorotaxanes
AUTHOR(S): Gibson, Harry W.; Hamilton, Lesley; Yamaguchi, Nori
CORPORATE SOURCE: Department of Chemistry, Virginia Polytechnic
Institute and State University, Blacksburg, VA,
24061,
USA

SOURCE: Polym. Adv. Technol. (2000), 11(8-12), 791-797
CODEN: PADTE5; ISSN: 1042-7147
PUBLISHER: John Wiley & Sons Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The formation of pseudorotaxanes from dibenzo-24-crown-8 (DB24C8) and secondary aliph. ammonium ions was reported by Stoddart et al. Based on that mol. recognition motif several systems have been examd. as prototypical examples of (1) self-assembly of dendrimers via pseudorotaxane formation, (2) self-assembly of linear non-covalent **polymers** of the pseudorotaxane type and (3) control of properties of a **polymer** by pseudorotaxane formation. Attachment of a DB24C8 moiety to the "focal point" of first, second and third generation benzyl ether dendrons (Frechet type) allowed soln. phase self-assembly with a core unit consisting of 1,3,5-tris[p-(N-benzylammoniomethyl)**phenyl**]**benzene** to produce the corresponding dendritic pseudorotaxane structures, which are of nanometer scale. Ditopic hosts were prepd. by coupling DB24C8 units with difunctional linear species; ditopic guests were similarly constructed by linking two dibenzylammonium ion moieties. At high concns. in relatively non-polar solvents these complementary building blocks self-assembled

into non-covalently bonded (pseudorotaxane) linear arrays, with high viscosity and fiber forming ability. Treatment of **polymethacrylates** bearing pendant DB24C8 units with dibenzylammonium PF6- resulted in changes in properties as a result of formation of side-chain pseudorotaxane units.

TI Molecular self-assembly of dendrimers, non-covalent **polymers** and **polypseudorotaxanes**

REFERENCE COUNT: 30

REFERENCE(S): (4) Ashton, P; Angew Chem Int Ed Eng 1995, V34, P1865
CAPLUS
(5) Bosman, A; Chem Rev 1999, V99, P1665 CAPLUS
(8) Frechet, J; Comprehensive Polymer Science, 2nd
suppl 1996, P71 CAPLUS
(11) Gibson, H; Prog Polym Sci 1994, V19, P843 CAPLUS
(12) Gong, C; Curr Opin Solid State Mater Sci 1997,
V2, P647 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 2 OF 18 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 2000:257703 CAPLUS

DOCUMENT NUMBER: 133:17916

TITLE: Preparation of **poly**(biphenylene vinylene)
type **polymers** by Ni-promoted
polycondensation and their basic optical
properties

AUTHOR(S): Yamamoto, Takakazu; Xu, Yuqing; Inoue, Tetsuji;
Yamaguchi, Isao

CORPORATE SOURCE: Research Laboratory of Resources Utilization, Tokyo
Institute of Technology, Yokohama, 226-8503, Japan
SOURCE: J. Polym. Sci., Part A: Polym. Chem. (2000), 38(9),
1493-1504

CODEN: JPACEC; ISSN: 0887-624X

PUBLISHER: John Wiley & Sons, Inc.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Ni(0)-complex promoted dehalogenation **polymn.** of 1,2-bis(4-bromophenyl)ethylene derivs. gave **poly**(p-biphenylene vinylene) type **polymers**, (-C6H2R21-CR2:CR2-C6H2R21-)n [P(R1,H) and P(H,R2)], having substituents (R1 = Me, Et, CHMe2, and n-C8H17, R2 = Me, Et, n-C6H13, n-C11H23, and Ph) at the **benzene** ring or vinylene group in 90-99% yields. The **polymers** were sol. in org. solvents such as CHCl3, DMF, and THF, and gave Mn of 2.4-5.3 .times. 103 in gel permeation chromatog. anal.

The

absorption peak of the **polymers** appeared at a longer wavelength than that of the corresponding monomers by about 30 nm due to the expansion of the .pi.-conjugation system. The **polymers** were photoluminescent in solns. and in their films, emitting blue or green light. P(R1,H)s gave higher quantum yields (.PHI. = 0.35-0.51) than P(H,R2)s in CHCl3. P(H,R2)s showed a large Stokes shift (9600-13,500 cm-1) in their photoluminescence. Single-layer and multilayer light emitting diodes using vacuum deposited thin film of P(H,Ph) were prepd. **Polymers** with long alkyl substituents formed an ordered structure in the solid state as judged from their XRD (x-ray diffraction) patterns.

TI Preparation of **poly**(biphenylene vinylene) type **polymers** by Ni-promoted **polycondensation** and their basic optical properties

REFERENCE COUNT: 50
REFERENCE(S): (7) Bogdanovic, B; Justus Liebigs Ann Chem 1966, V699,

P1 CAPLUS

- (8) Brown, A; Chem Phys Lett 1992, V200, P46 CAPLUS
 - (9) Bunz, U; Chem Mater 1999, V11, P1416 CAPLUS
 - (10) Burroughes, J; Nature 1990, V347, P539 CAPLUS
 - (11) Chen, T; J Am Chem Soc 1995, V117, P233 CAPLUS
- ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1999:721249 CAPLUS

DOCUMENT NUMBER: 132:78250

TITLE: Preparation and exchange interaction of DPPH-derived **polyradicals**

AUTHOR(S): Kozaki, Masatoshi; Nakamura, Shogo; Sato, Kazunobu; Takui, Takeji; Okada, Keiji

CORPORATE SOURCE: Department of Chemistry, Graduate School of Science, Osaka City University, Osaka, 558-8585, Japan

SOURCE: Mol. Cryst. Liq. Cryst. Sci. Technol., Sect. A (1999),

334, 131-138

CODEN: MCLCE9; ISSN: 1058-725X

PUBLISHER: Gordon & Breach Science Publishers

DOCUMENT TYPE: Journal

LANGUAGE: English

AB A series of 1,1'-(benzene-1,3-diyl)bis(1-phenyl-2-picrylhydrazine) derivs.

was prepd. and oxidized to generate the corresponding bis-DPPH diradicals.

No triplet species was obsd. for the parent compd. in the ESR. Incorporation of substituents in both the central **benzene** ring and the **N-Ph** groups resulted in the detection of triplet diradicals. Esp., the diradical with Me and t-Bu groups on the central **benzene** and the **N-Ph** rings, resp., was successfully purified and isolated at 0.degree. as a purple solid. Temp.-dependence of the intensity of the ESR signal showed that the isolated radical had a triplet ground state.

TI Preparation and exchange interaction of DPPH-derived **polyradicals**

REFERENCE COUNT: 12

- REFERENCE(S):
- (1) Buu-Hoi, N; J Chem Soc 1952, P4346 CAPLUS
 - (4) Fang, S; J Am Chem Soc 1995, V117, P6727 CAPLUS
 - (6) Heidberg, J; J Am Chem Soc 1964, V86, P5173

CAPLUS

(7) Iwamura, H; Pure and Appl Chem 1996, V68, P243 CAPLUS

(8) Kanno, F; J Am Chem Soc 1993, V115, P847 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 4 OF 18 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1999:558935 CAPLUS

DOCUMENT NUMBER: 132:208229

TITLE: Laterally attached SCLCPs designed to exhibit smectic

C mesophases
AUTHOR(S): Pugh, Coleen; Zhu, Pukun
CORPORATE SOURCE: Maurice Morton Institute of Polymer Science, The University of Akron, Akron, OH, 44325-3909, USA
SOURCE: Polym. Prepr. (Am. Chem. Soc., Div. Polym. Chem.) (1999), 40(2), 534-535
CODEN: ACPPAY; ISSN: 0032-3934
PUBLISHER: American Chemical Society, Division of Polymer Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Based on the tendency of low molar mass liq. crystals composed of extended mesogens sym. disubstituted with long n-alkoxy substituents to exhibit smectic C mesophases, SCLCPs were designed, which possess laterally attached (vs. terminally attached) mesogens. The mesogens offer an ideal architecture for obtaining sC* mesophases. A three step synthetic approach is outlined for laterally attaching 1,4-bis[(3'-fluoro-4'-n-alkoxy-**phenyl**)ethynyl]**benzene** mesogens to a **polynorbornene** backbone to obtain the sC-n(i) phase sequence.
TI Laterally attached SCLCPs designed to exhibit smectic C mesophases
REFERENCE COUNT: 9
REFERENCE(S): (2) Komiya, Z; Macromolecules 1993, V26, P1393 CAPLUS
(4) Pugh, C; Liq Cryst 1991, V10, P229 CAPLUS
(5) Pugh, C; Macromolecules 1992, V25, P6593 CAPLUS
(6) Pugh, C; Macromolecules 1997, V30, P4520 CAPLUS
(7) Pugh, C; Macromolecules 1998, V31, P1779 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 5 OF 18 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1999:544343 CAPLUS
TITLE: Laterally attached SCLCPs designed to exhibit smectic C mesophases.
AUTHOR(S): Pugh, Coleen; Zhu, Pukun
CORPORATE SOURCE: Maurice Morton Institute of Polymer Science, The University of Akron, Akron, 44325-3909, USA
SOURCE: Book of Abstracts, 218th ACS National Meeting, New Orleans, Aug. 22-26 (1999), POLY-470. American Chemical Society: Washington, D. C.
CODEN: 67ZJA5
DOCUMENT TYPE: Conference; Meeting Abstract
LANGUAGE: English
AB Based on the tendency of low molar mass liq. crystals composed of extended mesogens sym. disubstituted with long n-alkoxy substituents to exhibit smectic C mesophases, we have proposed that SCLCPs with laterally attached (vs. Terminally attached) mesogens offer an ideal architecture for obtaining sC* mesophases. This paper will describe a three step approach for laterally attaching 1,4-bis[(3'-fluoro-4'-n-alkoxy-**phenyl**)ethynyl]**benzene** mesogens to a **polynorbornene** backbone in order to obtain the sC-n(i) phase sequence.
TI Laterally attached SCLCPs designed to exhibit smectic C mesophases.

L24 ANSWER 6 OF 18 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1998:754828 CAPLUS
DOCUMENT NUMBER: 130:81232
TITLE: **Poly**[4-vinyl, N-(N'-**phenyl**) **benzene** sulfonamide] as a new and selective catalyst for bromination of various aromatic compounds
AUTHOR(S): Khazaei, Ardeshir; Hosseini, Hassan; Sadri, Minoo
CORPORATE SOURCE: Department of Chemistry, Faculty of Science, Bu-Ali Sina University, Hamadan, Iran
SOURCE: Orient. J. Chem. (1998), 14(2), 267-276

CODEN: OJCHEG; ISSN: 0970-020X
PUBLISHER: Oriental Scientific Publishing Co.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB **Poly**(4-vinyl-N'-phenylbenzenesulfonylhydrazine) was prep'd. for use as catalyst for bromination of arom. rings, e.g., benzene, toluene, iso-propylbenzene and bromobenzene. The **polymer** was prep'd. by radical **polymn.** of 4-CH₂:CHC₆H₄SO₂NHNHPh with azobisisobutyronitrile as initiator. The hydrazide was prep'd. from com. 4-vinylbenzenesulfonic acid sodium salt, PCl₅ and phenylhydrazine. The **polymer** can be used in equimolar amts. as a **polymeric** catalyst, and catalyzes a wide range of bromination reactions. Recovered **polymer** can be reused. Bromination of arom. rings takes place without brominating the alkyl substituent on the arom. ring.

TI **Poly**[4-vinyl, N-(N'-phenyl) benzene sulfonamide] as a new and selective catalyst for bromination of various aromatic compounds

REFERENCE COUNT: 19
REFERENCE(S): (1) Arshady, R; React Poly 1983, V1, P159 CAPLUS
(3) Bonds, W; J Am Chem Soc 1975, V97, P2128 CAPLUS
(4) Capillon, J; Polym Bull 1985, V13, P185 CAPLUS
(5) Challa, G; Mol Catal 1983, V21, P1 CAPLUS
(8) Guyot, A; Progr Polym Sci 1982, V8, P277 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 7 OF 18 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1998:706385 CAPLUS
DOCUMENT NUMBER: 130:67012
TITLE: Preparation of a Redox-Gradient Dendrimer.
Polyamines Designed for One-Way Electron Transfer and Charge Capture
AUTHOR(S): Selby, Trent D.; Blackstock, Silas C.
CORPORATE SOURCE: Department of Chemistry, The University of Alabama, Tuscaloosa, AL, 35487-0336, USA
SOURCE: J. Am. Chem. Soc. (1998), 120(46), 12155-12156
CODEN: JACSAT; ISSN: 0002-7863
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB A redox-active **polyarylamine** dendrimer (I) which possesses a radial redox-gradient was prep'd. via sequential Ullmann reactions and the electron transport mechanisms were studied. The dendrimer has a benzene core, interior p-phenylenediamine (PD) groups, perimeter diarylamino groups, and nominal C₃ symmetry with nine distinct, meta-linked redox functions. Electrochem. oxidn. of dendrimer I by cyclic voltammetry (CV) reveals multiple oxidns.; the first three oxidn. peaks are chem. reversible and are assigned as one-, two- and three-electron processes with oxidn. potential E1.degree.' 0.48, E2.degree.' .apprx. E3.degree.' 0.63, and E4.degree.' .apprx. E5.degree.' .apprx. E6.degree.' 0.88 V vs. SCE in CH₂Cl₂. The fourth, fifth, and sixth oxidns. of I at 0.88 V are assigned as electron loss from remote peripheral AA groups. Chem. oxidn. of I with NOPF₆ provides isolable 1+, 12+, and 13+ PF₆ salts in high yield. The redox gradient in dendrimer I is about 0.2 V and this potential gradient should provide a conduit for electron-hole transfer from surface to core and simultaneously impart a barrier to the reverse process to render a degree of electronic protection against the reverse charge transport. The intermol. PD neutral/cation electron-exchange rate for dendrimer I is slowed by a factor of 10³-10⁴ relative to model (unprotected) PD neutral/cation couples.

TI Preparation of a Redox-Gradient Dendrimer. **Polyamines** Designed
for One-Way Electron Transfer and Charge Capture

REFERENCE COUNT: 47

REFERENCE(S): (2) Bruce, C; J Chem Phys 1956, V24, P473 CAPLUS
(3) Bruce, C; J Chem Phys 1956, V24, P473 CAPLUS
(4) Bruce, C; J Chem Phys 1956, V24, P473 CAPLUS
(5) Buu-Hoi, N; J Chem Soc 1952, P4346 CAPLUS
(6) Buu-Hoi, N; J Chem Soc 1952, P4346 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 8 OF 18 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1998:253256 CAPLUS

DOCUMENT NUMBER: 128:230804

TITLE: Synthesis of Novel **Polysiloxanes** Containing
Charge Transporting and Second-Order Nonlinear

Optical

AUTHOR(S): Functionalities with Atom Economical Constructs
Belfield, Kevin D.; Chinna, Chandrasekhar; Najjar,
Ousama

CORPORATE SOURCE: Department of Chemistry, University of Detroit Mercy,
Detroit, MI, 48219, USA

SOURCE: Macromolecules (1998), 31(9), 2918-2924
CODEN: MAMOBX; ISSN: 0024-9297

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Novel, highly functionalized **polysiloxanes** were prep'd. in which
each repeat unit bears, on av., one charge transporting and one to two
second-order nonlinear optical chromophores. Covalent attachment of
charge-transporting carbazole or diphenylamine derivs. was realized
through efficient Pt-catalyzed hydrosilylation. **Poly**
(methylsiloxane) was reacted with 9-(2-propenyl)carbazole or (N-
phenyl-N-2-propenylamino)benzene, affording
poly[methyl-3-(9-carbazolyl)propylsiloxane] and **poly**
[methyl-3-(N,N-diphenylamino)propylsiloxane], resp. Rather remarkable
regiospecific bromination of the two arylamine-contg. siloxane
polymers was achieved using benzyltrimethylammonium chlorobromate,
resulting in the formation of **poly**[methyl-3-(N-(3,6-
dibromocarbazolyl))propylsiloxane] and **poly**[methyl-3-(N,N-bis(4-
bromophenyl)amino)propylsiloxane]. Pd-catalyzed Heck-type coupling of

the

aryl bromide-bearing **polysiloxanes** with either
vinylbenzenephosphonic acid di-Et ester or 4-nitrostyrene afforded
stilbene-contg. **polymers** bearing phosphonate ester or nitro
moieties as electron-withdrawing functionalities, resp. These fully
functionalized **polymers** were readily sol. in several common org.
solvents.

TI Synthesis of Novel **Polysiloxanes** Containing Charge Transporting
and Second-Order Nonlinear Optical Functionalities with Atom Economical
Constructs

L24 ANSWER 9 OF 18 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1997:261377 CAPLUS

DOCUMENT NUMBER: 126:317742

TITLE: Tris(2,4-pentanedionato)vanadium-catalyzed
cyclotrimerization and **polymerization** of
4-(N,N-dimethylamino)phenylethyne: x-ray structure of
1,2,4-tris[4-(N,N-dimethylamino)
phenyl)benzene

AUTHOR(S): Rodriguez, J. Gonzalo; Martin-Villamil, Rosa;
Fonseca,

Isabel

CORPORATE SOURCE: Departamento de Quimica Organica, Cl, Facultad de
Ciencias, Universidad Autonoma, Madrid, 28049, Spain

SOURCE: J. Chem. Soc., Perkin Trans. 1 (1997), (6), 945-948
CODEN: JCPRB4; ISSN: 0300-922X

PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Tris(pentane-2,4-dionato)vanadium-catalyzed **polymn.** of 4-(N,N-dimethylamino)phenylethyne gave a **polyene** with .pi.-conjugated donor substituents. Similarly, cyclotrimerization of the acetylene deriv. gave a mixt. of 1,2,4- and 1,3,5-tris[4-(N,N-dimethylamino)**phenyl**]**benzene** in variable yield, depending on the reaction conditions employed. The mol. structure of the main cyclotrimerization product, i.e., the 1,2,4- isomer, was detd. by x-ray diffraction methods.

TI Tris(2,4-pentanedionato)vanadium-catalyzed cyclotrimerization and **polymerization** of 4-(N,N-dimethylamino)phenylethyne: x-ray structure of 1,2,4-tris[4-(N,N-dimethylamino)**phenyl**]**benzene**

L24 ANSWER 10 OF 18 CAPLUS COPYRIGHT 2001 ACS
ACCESSION NUMBER: 1997:195327 CAPLUS
DOCUMENT NUMBER: 126:171190
TITLE: Isolable **polyradical** cations of **polyphenylenediamines** with populated high-spin states
AUTHOR(S): Stickley, Kurt R.; Selby, Trent D.; Blackstock, Silas C.
CORPORATE SOURCE: Department of Chemistry, University of Alabama, Tuscaloosa, AL, 35487-0336, USA
SOURCE: J. Org. Chem. (1997), 62(3), 448-449
CODEN: JOCEAH; ISSN: 0022-3263
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 126:171190
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The prepn. and oxidn. of 1,3,5-tris[N-[4-(diphenylamino)**phenyl**]**phenylamino**]**benzenes** [I; R = H (II), OMe (III)] are reported. Cyclic voltammetry of each substrate shows 6 chem. reversible oxidns. at 298 K. The corresponding formal oxidn. potentials (E.degree.' in CH₂Cl₂, 0.1 M Bu₄NClO₄) are (n,+) 0.59, (+,2+) 0.72, (2+,3+) 0.79, (3+,4+) 1.15, (4+,5+) 1.24, (5+,6+) 1.33 V vs. SCE for II and (n,+) 0.41, (+,2+) 0.54, (2+,3+) 0.61, (3+,4+) 0.97, (4+,5+) 1.01, (5+,6+) 1.08 V vs. SCE for III. Dications II₂⁺ and III₂⁺ in frozen PrCN show triplet-state ESR signals with |D|/hc values 0.0035 and 0.0026 cm⁻¹, resp. The trications II₃⁺ and III₃⁺ show 5-line ESR spectra in frozen media, which are assigned to the corresponding quartet species. The |D|/hc splittings for II₃⁺ and III₃⁺ are 0.0026 and 0.0018 cm⁻¹, resp. Curie-Weiss plots over the limited temp. range of 90-120 K are linear for both trications. Soln. susceptibility measurements by 1H NMR at 298.5 K show that these di- and trications are mixts. of low- and high-spin states with the latter states in excess. Lifetimes of the mono-, di-, and trications of II and III in soln. are days at 298 K, and the first 3 cationic states of III are isolably stable as their PF₆ salts. These results demonstrate the robust stability of meta-linked p-phenylenediamine triplet and quartet **polyradical** cations.

TI Isolable **polyradical** cations of **polyphenylenediamines** with populated high-spin states

L24 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1995:531006 CAPLUS
 DOCUMENT NUMBER: 123:158615
 TITLE: One or two-dimensional ferro- and ferrimagnetic ordering formed by manganese(II) complexes with .pi.-conjugated **polynitroxide** radicals
 AUTHOR(S): Inoue, Katsuya; Iwamura, Hiizu
 CORPORATE SOURCE: Dep. of Chemistry, Kitasato Univ., Kanagawa, 228, Japan
 SOURCE: Synth. Met. (1995), 71(1-3), 1793-4
 CODEN: SYMEDZ; ISSN: 0379-6779
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The crystal structure and magnetic properties of two novel adducts of Mn(II) and bis- and trinitroxide radicals Mn(hfac)2(BisNO) (I) and [Mn(hfac)2]3(TrINO)2, (II), where hfac = hexafluoroacetylacetonate and BisNO = 1,3-bis(N-tert-butyl-N-oxyamino)benzene, TrINO = 1,3,5-tris[p-(N-tert-butyl-N-oxyamino)**phenyl**]**benzene**, are reported. I is monoclinic, space group P21/n with a 9.212(3), b 16.620(3), c 20.088(2) .ANG., .beta. 98.46(1).degree., and Z = 4. The BisNO mols. and Mn ions make a 1-dimensional **polymeric** chain. I behaves as a metamagnet, with a hysteretic magnetization curve below Tc = 5.5 K. II is rhombohedral (hexagonal axes), space group R.hivin.3 a 28.462(7), c 18.40(1) .ANG., and Z = 4. Six TrINO mols. and six Mn ions make an expanded hexagon from which an extend honeycomb network is constructed by sharing its edges. II behaves as a magnet, with a spontaneous magnetization below Tc = 3.4 K. Structures and magnetic properties for I and II are discussed.
 TI One or two-dimensional ferro- and ferrimagnetic ordering formed by manganese(II) complexes with .pi.-conjugated **polynitroxide** radicals

L24 ANSWER 12 OF 18 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1991:256810 CAPLUS
 DOCUMENT NUMBER: 114:256810
 TITLE: Molecular design for better charge transporting organic materials. (II). Hole drift mobility and chemical structure of arylamine derivatives
 AUTHOR(S): Tanaka, Hiroaki; Yamaguchi, Yasuhiro; Yokoyama, Masaaki
 CORPORATE SOURCE: Fac. Eng., Osaka Univ., Suita, 565, Japan
 SOURCE: Denshi Shashin Gakkaishi (1990), 29(4), 366-72
 CODEN: DSHGDD; ISSN: 0387-916X
 DOCUMENT TYPE: Journal
 LANGUAGE: Japanese
 AB Arylamine derivs. contg. only **N-Ph** units, which can be taken as a structural min. unit for hole carrier, were synthesized, and their hole-drift mobilities in **polymer** dispersions were studied in relation to their chem. structure. The results validitated the previously proposed concept for developing better charge-transporting carriers and the dependence of their mobility on the chem. structure was thus obsd. for the first time, is related to the position of the **N-Ph** substituent on **benzene**. The dependence was interpreted by the more concrete concept of **polyfunctionality** and intramol.-mobility based on MO calcns. Among the compds. investigated, a new arylamine deriv., N,N,N',N'-tetrakis (3-methylphenyl)-m-phenylenediamine (m-PDA), showed a high-hole mobility.
 TI Molecular design for better charge transporting organic materials. (II). Hole drift mobility and chemical structure of arylamine derivatives

L24 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1990:93291 CAPLUS
 DOCUMENT NUMBER: 112:93291
 TITLE: An electron spin resonance study of the particles produced in the pyrolysis of perfluoro

polymers

AUTHOR(S): Pryor, William A.; Nuggehalli, Shamala K.; Scherer, Kirby V., Jr.; Church, Daniel F.

CORPORATE SOURCE: Biodyn. Inst., Louisiana State Univ., Baton Rouge, LA, 70803, USA

SOURCE: Chem. Res. Toxicol. (1990), 3(1), 2-7
CODEN: CRTOEC; ISSN: 0893-228X

DOCUMENT TYPE: Journal

LANGUAGE: English

AB ESR anal. at room temp. of the particles produced during the aerobic pyrolysis of perfluoro **polymers** shows the presence of end-chain peroxy radicals. These radicals, which would normally have lifetimes of several seconds at most, are stabilized by being immobilized in the particles and decay at a rate of .apprx.20%/day. Normally, radicals with this stability would not be expected to be reactive; however, these peroxy radicals react with 3-chloropropene, with iodine in benzene, with Me linoleate in MeOH, and with soy phosphatidylcholine in aq. liposomes. Also, stable radicals of this sort would not be expected to give spin adducts; however, when the particles are suspended in a **benzene** soln. contg. .alpha.-**phenyl-N**-tert-butyl nitron (PBN), they react to give the same series of spin adducts that are detected when the unfiltered smoke from the oxidative pyrolysis of perfluoro **polymers** is bubbled directly into PBN solns. This appears to be the 1st report of the reaction of radicals entrapped in a solid with a spin trap. The nitroxide species produced by the PBN-particle reaction include a fluorine atom spin adduct, an oxy radical adduct, and benzoyl tert-Bu nitroxide (PBNOx), the oxidn. product of the spin trap; all of these appear to arise from reaction of the particle-bound peroxy radicals with the spin trap. Because the particles are in the highly respirable range (down to 0.01 .mu.m), these entrapped peroxy radicals may be carried deep within the lung when fumes from PFP pyrolysis are inhaled and would be expected to place an oxidative burden on the lung. Thus, these results support the hypothesis that oxidative reactions initiated by radicals may contribute to the toxicity of smoke (i.e., the oxidative pyrolysis products) of perfluoro **polymers**.

TI An electron spin resonance study of the particles produced in the pyrolysis of perfluoro **polymers**

L24 ANSWER 14 OF 18 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1989:65723 CAPLUS

DOCUMENT NUMBER: 110:65723

TITLE: Bath for electrodepositing bright tin coatings

INVENTOR(S): Szczepaniak, Stanislaw

PATENT ASSIGNEE(S): Centralny Zwiastku Spoldzielni Inwalidow, Biuro Studiow

SOURCE: i Projektow, Kielce, Pol.
Pol., 9 pp. Abstracted and indexed from the unexamined application.

CODEN: POXXA7

DOCUMENT TYPE: Patent

LANGUAGE: Polish

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PL 141189	B1	19870731	PL 1984-248413	19840627

GI For diagram(s), see printed CA Issue.

AB The bath, for use in stationary and rotary devices, contains SnSO4 10-50, H2SO4 50-200, nonionic compd. R1R2Ar(OC2H4)nOH (where R1 and R2 are H, alkyl or alkoxy groups of 1-10 C atoms, Ar is **benzene**, naphthalene or di-**Ph** radical, and n = 10-50) 2-20,

unsatd. hydrophilic **polyester** resin [OCCH=CHCO(OC2H4)nO]m (n = 2-20, m = 4-40) 0.05-5, and quaternary carbonyl compd. I (where R1 and R2 are independently H, alkyl or alkoxy groups of 1-4 C atoms, amide, amine, carboxyl, nitro, nitrile or sulfone groups or halogen atom, R3 is H or halogen atom, alkyl or alkoxy group (1-4 C atoms), X is Cl-, Br-, I-, OH-, or CH3SO4- and N is a ternary heterocyclic compd. contg. ternary N atom and pyridine, quinoline, isoquinoline or acridine ring 0.5-5 g/dm³. The bath gives bright, plastic, and compact coatings at high deposition rates.

TI Bath for electrodepositing bright tin coatings

L24 ANSWER 15 OF 18 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1985:479398 CAPLUS
DOCUMENT NUMBER: 103:79398
TITLE: Photographic dye image formation
PATENT ASSIGNEE(S): Konishiroku Photo Industry Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60019140	A2	19850131	JP 1983-127415	19830713
JP 05014894	B4	19930226		

AB A dye image is formed on a Ag halide color photog. photosensitive material

which comprises a support and .gtoreq.1 Ag halide emulsion layer contg.

Ag

halide grains substantially composed of AgCl by way of color developing the imagewise exposed material with a developer (pH 9.5-11.0) which contains a p-phenylenediamine-type color developer and a **polyhydroxybenzene**-type preservative represented by the general formula (CO₂M)nPh(OH)m [M = H, alkali metal; m = 2, 3; n = 1, 2; Ph = benzene ring). The developer effectively suppresses color stains and lowering in color d. often resulting from long-time running processing of AgCl photog. films. Thus, a **poly** (ethylene terephthalate) support was coated with a green-sensitive monodispersed AgCl emulsion (av. grain size 0.45 .mu.m) layer contg. a magenta coupler and a protective layer to form a photog. film. The film was stepwise-exposed, color-developed at 33.degree. for 70 s with a developer composed of ethylene glycol 8, benzyl alc. 6 mL, K₂SO₃ 20, 4-amino-3-methyl-N-ethyl-N-.beta.-ethanesulfonamidoethylaniline sulfate 4.5, adenine 0.018, K₂CO₃ 27.0, NaCl 1.0, 4,4'-diaminostilbene whitening agent 1.5, and 1,4-dihydroxy-5-carboxylbenzene 2.0 g/L (pH 10.4), and bleach-fixed to give a magenta image in which D_{max} and D_{min} (stain level) were kept substantially const. even when the film was developed by a developer stored for 10 days before use.

TI Photographic dye image formation

L24 ANSWER 16 OF 18 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1984:553384 CAPLUS
DOCUMENT NUMBER: 101:153384
TITLE: Surface-modified **polyester** compns.
PATENT ASSIGNEE(S): Teijin Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
------------	------	------	-----------------	------

JP 59066449 A2 19840414 JP 1982-176098 19821008
 AB **Polyester** compns. for soil-repellent fibers and films contain 0.1-5% F-contg. metal sulfonates (RSO₃)pM or [(RZ)nZ1SO₃]pM (R = C₄-27 perfluoroalkyl; Z = S, O; Z1 = **benzene**, naphthalene, biphenyl, di-**Ph** ether residue; n = 1-2; p = 1-4; M = p-valent metal). Thus, a 99:1 mixt. of **poly**(ethylene terephthalate) and Na perfluorononyloxybenzenesulfonate [77110-17-9] was melt-spun at 295.degree. and drawn to give soil-repellent fibers with tenacity 4.5 g/denier and elongation 35%.
 TI Surface-modified **polyester** compns.

L24 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1969:471710 CAPLUS
 DOCUMENT NUMBER: 71:71710
 TITLE: **Polyisoprene** with high cis-1,4 content
 INVENTOR(S): Nishida, Takuji; Itoi, Kazuo
 PATENT ASSIGNEE(S): Kurashiki Rayon Co., Ltd.
 SOURCE: Ger., Offen., 24 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 1804490		19690619		
PRIORITY APPLN. INFO.:			JP	19671024
			JP	19671205

AB The title **polymers** are prepd. by **polymg.** isoprene (I) in inert hydrocarbon solvents using catalysts contg. organoaluminum compds. and components prepd. by treating organotin hydrides with TiCl₄ in inert hydrocarbon solvents using SnH group-Ti mole ratios of 0.5-6.0, followed by the removal of .gtoreq.25% of the hydrocarbon-sol. material from the reaction mixt. Al-Ti mole ratios of 0.01-0.5 are used. Thus, a mixt. of 30 ml. n-hexane (II), 0.87 g. Bu₃SnH, and 0.57 g. TiCl₄ were held 1 hr. at 29.degree. under N, centrifuged 10 min. at 3000 rpm., and the supernatant liq. removed. The II-insol. fractions were washed 4 times by centrifugation with 30 ml. II, mixed with an addnl. 30 ml. II, 0.6 millimoles Et₃Al in n-heptane, and 7.20 g. I. The mixt. was shaken 24 hrs. at 50.degree.. The **polymer** was immersed overnight in 100 ml. 4:1 **benzene**-MeOH contg. **N-phenyl**-.beta.-naphthylamine, and pptd. with 200 ml. MeOH, giving a rubbery **polymer**. The yield was 84.2% after swelling with benzene and freeze-drying. The **polymer** contained 11.2% wt. gel and 95.4% cis-1,4 units. **Polymn.** without the addn. of Et₃Al or with the removal of <25% of the hexane-sol. fraction of the Bu₃SnH-TiCl₄ reaction product gave varying yields of a resinous **polymer**. Other SnH compds. used were Et₃SnH, Bu₂SnH₂, Ph₃SnH, and Pr₃SnH, and other Al compds. used were Et₂AlCl and iso-Bu₃Al.
 TI **Polyisoprene** with high cis-1,4 content

L24 ANSWER 18 OF 18 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1966:489712 CAPLUS
 DOCUMENT NUMBER: 65:89712
 ORIGINAL REFERENCE NO.: 65:16753a-b
 TITLE: Oxidation products of **N-phenyl**-1-naphthylamine and effect of alkylation on oxidation inhibition
 AUTHOR(S): Peeler, R. L.
 CORPORATE SOURCE: California Res. Corp., Richmond
 SOURCE: Am. Chem. Soc., Div. Petrol. Chem., Preprints (1965), 10(2), D119-D125

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The lubricating oil insol. oxidn. product of **N-phenyl**-1-naphthylamine was prepd. by a variety of oxidizing agents in neutral media. It was identified by elemental and spectrometric analysis as a **polymeric** 1,4 naphthylenediamine deriv. Ring alkylation affected both the character of the oxidn. product and effectiveness as an oxidn. inhibitor. Dornte O absorption measurements were used to measure inhibitor effectiveness and sunlight exposure to evaluate resistance to sludge formation. Substitution of long alkyl groups on the **benzene** ring of **N-phenyl**-1-naphthylamine gave the best combination of oxidn. inhibition and resistance to sludging.

TI Oxidation products of **N-phenyl**-1-naphthylamine and effect of alkylation on oxidation inhibition

=> log h

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	52.53	149.70
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-10.58	-19.99

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 13:35:05 ON 01 OCT 2001
Connection closed by remote host

Trying 3106016892...Open

Welcome to STN International! Enter x:x

LOGINID:sssptal745sxt

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 13:35:26 ON 01 OCT 2001
FILE 'CAPLUS' ENTERED AT 13:35:26 ON 01 OCT 2001
COPYRIGHT (C) 2001 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	52.86	150.03
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-10.58	-19.99

=> d his

(FILE 'HOME' ENTERED AT 12:56:18 ON 01 OCT 2001)

FILE 'REGISTRY' ENTERED AT 12:56:49 ON 01 OCT 2001

L1 STRUCTURE UPLOADED

L2 QUE L1

L3 50 S L1 SAM

FILE 'CAPLUS' ENTERED AT 12:59:32 ON 01 OCT 2001

S L1 AND POLYMER?

FILE 'REGISTRY' ENTERED AT 12:59:40 ON 01 OCT 2001

L4 50 S L1

FILE 'CAPLUS' ENTERED AT 12:59:41 ON 01 OCT 2001

L5 52 S L4

L6 4 S L5 AND POLYMER?
 S L1 AND POLY?

 FILE 'REGISTRY' ENTERED AT 13:08:41 ON 01 OCT 2001
 L7 50 S L1

 FILE 'CAPLUS' ENTERED AT 13:08:43 ON 01 OCT 2001
 L8 52 S L7
 L9 10 S L8 AND POLY?

 FILE 'REGISTRY' ENTERED AT 13:15:24 ON 01 OCT 2001
 L10 0 S POLYBIPHENYLANILINE

 FILE 'CAPLUS' ENTERED AT 13:15:58 ON 01 OCT 2001
 L11 1 S POLYBIPHENYLANILINE

 FILE 'CAPLUS' ENTERED AT 13:17:37 ON 01 OCT 2001
 L12 0 S POLYMER? (5A) BIPHENYLANILINE

 FILE 'REGISTRY' ENTERED AT 13:18:15 ON 01 OCT 2001
 L13 0 S BIPHENYLANILINE

 FILE 'REGISTRY' ENTERED AT 13:21:06 ON 01 OCT 2001

 FILE 'REGISTRY' ENTERED AT 13:28:03 ON 01 OCT 2001
 L14 STRUCTURE UPLOADED
 L15 QUE L14
 L16 0 S DL14 SAM
 L17 3 S L14 SAM

 FILE 'CAPLUS' ENTERED AT 13:29:53 ON 01 OCT 2001
 S L14 AND POLYMER?

 FILE 'REGISTRY' ENTERED AT 13:30:08 ON 01 OCT 2001
 L18 3 S L14

 FILE 'CAPLUS' ENTERED AT 13:30:10 ON 01 OCT 2001
 L19 4 S L18
 L20 1 S L19 AND POLYMER?

 FILE 'CAPLUS' ENTERED AT 13:32:56 ON 01 OCT 2001

 FILE 'CAPLUS' ENTERED AT 13:33:00 ON 01 OCT 2001
 L21 1630 S PHENYL (3A) BENZENE
 L22 92 S L21 AND (N (2A) PHENYL)
 L23 54 S L22 AND ((N (2A) PHENYL) (3A) BENZENE)
 L24 18 S L23 AND POLY?

=> log h

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	52.86	150.03
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-10.58	-19.99

SESSION WILL BE HELD FOR 60 MINUTES
 STN INTERNATIONAL SESSION SUSPENDED AT 13:35:36 ON 01 OCT 2001